ENDPOINT PROTECTOR 2009

Version 3.0.5.3

Installation Guide

COSOSYS

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1. System Requirements

1.1. Server System Requirements

- Operating system (x86):
  - Windows 2003 Server SP1 (or other Windows with IIS version 6.0 or higher)
  - Windows 2008 and Windows Small Business Edition 2008
  - Linux based (Debian or Ubuntu) are recommended, since installation routines are optimized for this particular OS. Other compatible Linux based systems are: Red Hat (Fedora) and other distributions
  - Unix based (FreeBSD etc)
  - Administrative rights on the Server
  - Apache web server (with PHP version 5.2.3 or higher) or IIS version 6.0 or higher (PHP as ISAPI module)
  - PHP-CLI
  - MySQL database or MSSQL database (MSSQL 2005 Express)
  - OpenSSL
  - .Net Framework 2.0
  - 2 GHz processor or faster recommended
  - Minimum of 512 MB RAM

- Total of 50 MB of available memory on the Hard Drive for the application files
- Additional space required by the MySQL or MSSQL database, depending on the number of clients and the activity on the network
- Sufficient Hard Drive space available for file tracing/shadowing module option (10GB up to 500GB). This space is related to the number of client computers and their activity. We recommend using a separate storage HDD for shadow storage

Attention!

In case you are using an internal or external firewall, please assure that the port you assign to the server is open. By default this is port 443.

1.2. Client System Requirements

- Operating system:
    - Windows 7 (all versions) 32bit/64bit
    - Windows Vista (all versions) 32bit/64bit
    - Windows XP Home or Professional
      (Service Pack 2 is recommended)
    - Windows Server 2003
    - Mac OS X 10.4 and 10.5+
- Administrative rights on the PC to install the MSI package
- Microsoft .NET Framework 2.0 needs to be preinstalled on the PC
- Fully functional internet / network connection
- 1 GHz processor (or faster recommended)
- Minimum of 256 MB RAM
- 32 MB of available memory on the hard drive (plus additional space for optional offline file tracing and file shadowing)

Attention!

In case you are using an internal or external firewall, please assure that the computer you are installing the client on has the server-specified port open. By default this is port 443. In case you are behind a router, consult the device's user manual or contact the manufacturer of your device about setting up port-forwarding.

2. Server Installation Routines

2.1. Windows OS Server Installation

2.1.1. Download locations of required applications:

All 3rd party software that is required for the installation can be downloaded for free from the following locations:

MSSQL

http://www.microsoft.com/sql/downloads/trial-software.mspx

MSSQL 2005 Express
and Microsoft SQL Server Management Studio Express

http://www.microsoft.com/express/2005/sql/register/

http://www.microsoft.com/downloads/details.aspx?FamilyID=c243a5ae-4bd1-4e3d-94b8-5a0f62bf7796&displaylang=en

.NET Framework 2.0

x86 version:

http://www.microsoft.com/downloads/details.aspx?FamilyID=0856EACB-4362-4B0D-8EDD-AAB15C5E04F5&displaylang=en

x64 version:

http://www.microsoft.com/downloads/details.aspx?familyid=b44a0000-acf8-4fa1-affb-40e78d788b00&displaylang=en

Additional information regarding the installation of these applications can be found on their respective websites.

Adobe® Flash® Player

http://get.adobe.com/flashplayer/?promoid=DXLUJ

This is required to display the Graphical reports in Endpoint Protector

2.1.2. Server Installation Prerequisites

These components MUST be installed before you can proceed with the installation of the Endpoint Protector Server.

Please follow these detailed next steps for a successful installation:

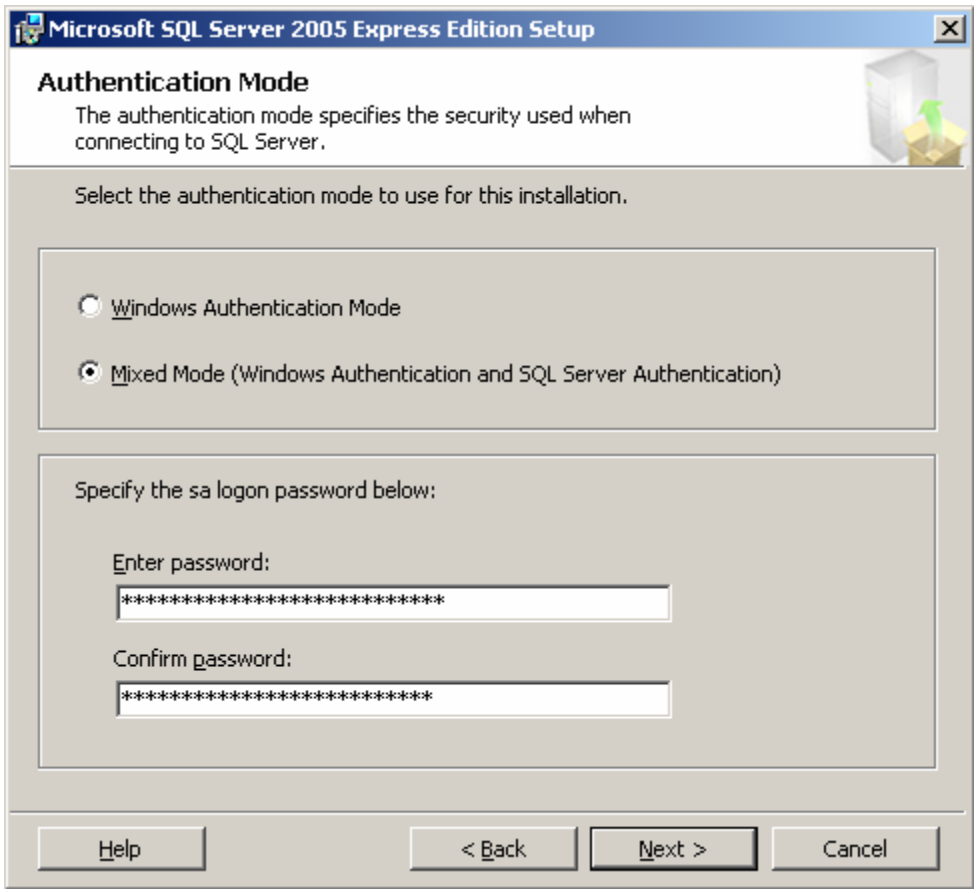
2.1.3. Install .NET Framework 2.0

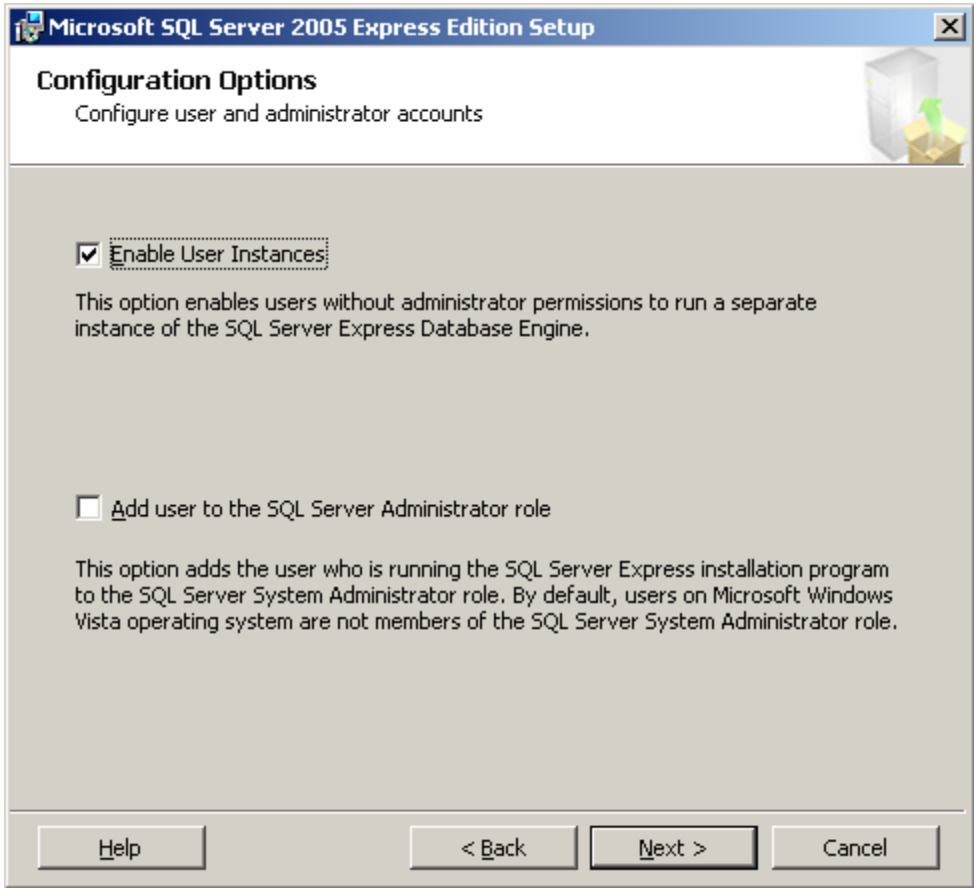
After you have downloaded the package, run the "dotnetfx.exe" and follow the instructions.

2.1.4. Install MS SQL or MS SQL 2005 Express Server and Server Management Studio

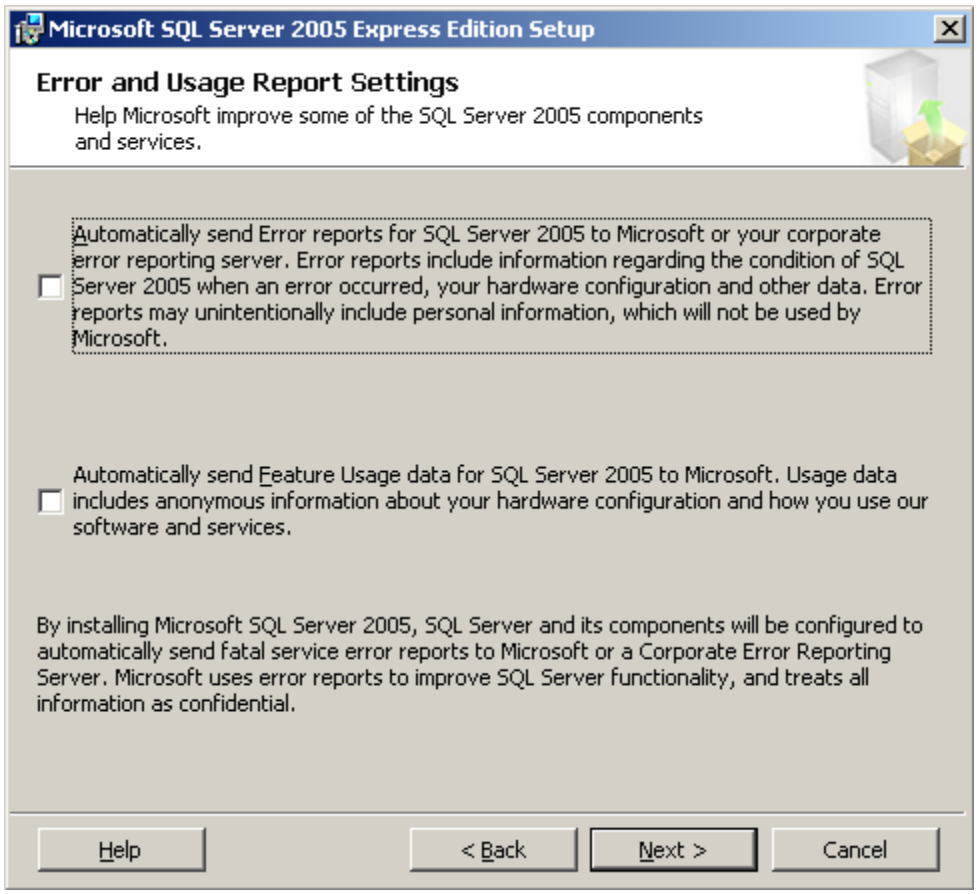
Run the installer and complete installation process with default settings.

When asked, choose "Mixed Mode (Windows Authentication and SQL Server Authentication)" and set up your password. On the following screen check "Enable User Instances" and click Next.



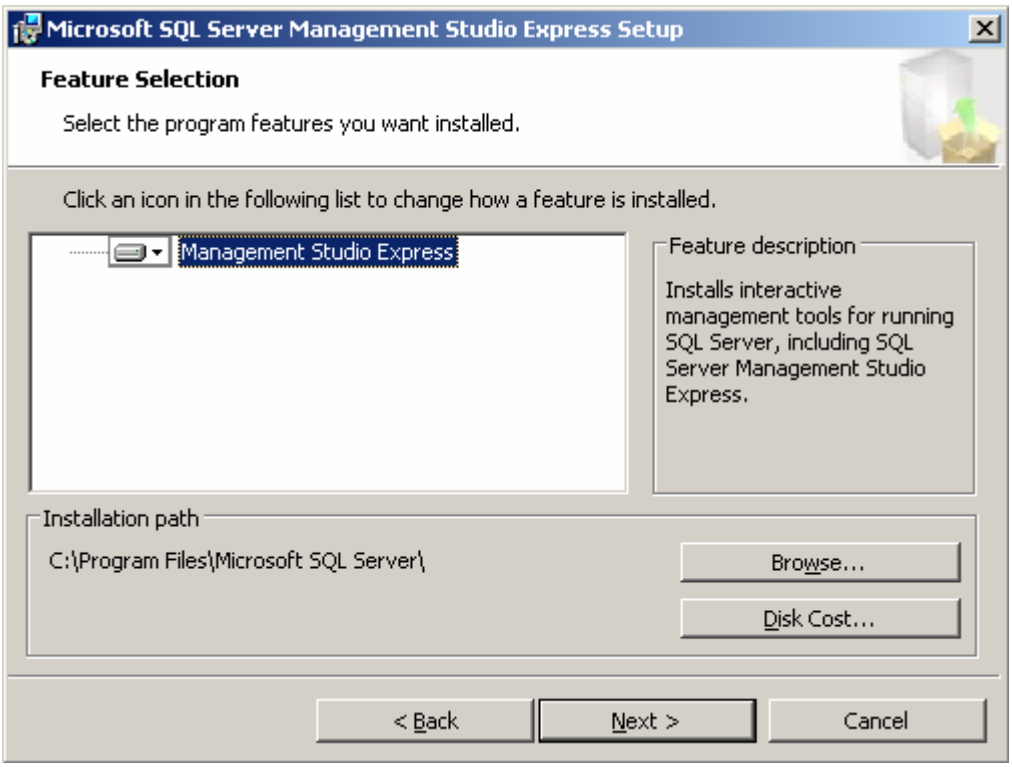

Microsoft SQL Server 2005 Express Edition Setup
Configuration Options
Configure user and administrator accounts
Enable User Instances
This option enables users without administrator permissions to run a separate instance of the SQL Server Express Database Engine.
Add user to the SQL Server Administrator role
This option adds the user who is running the SQL Server Express installation program to the SQL Server System Administrator role. By default, users on Microsoft Windows Vista operating system are not members of the SQL Server System Administrator role.
Help
< Back
Next >
Cancel

Click “Next”.


Microsoft SQL Server 2005 Express Edition Setup
Error and Usage Report Settings
Help Microsoft improve some of the SQL Server 2005 components and services.
Automatically send Error reports for SQL Server 2005 to Microsoft or your corporate error reporting server. Error reports include information regarding the condition of SQL Server 2005 when an error occurred, your hardware configuration and other data. Error reports may unintentionally include personal information, which will not be used by Microsoft.
Automatically send Feature Usage data for SQL Server 2005 to Microsoft. Usage data includes anonymous information about your hardware configuration and how you use our software and services.
By installing Microsoft SQL Server 2005, SQL Server and its components will be configured to automatically send fatal service error reports to Microsoft or a Corporate Error Reporting Server. Microsoft uses error reports to improve SQL Server functionality, and treats all information as confidential.
Help
< Back
Next >
Cancel

Click “Next” and proceed with the installation.

2.1.5. Install MS SQL Server Management Studio (Express)

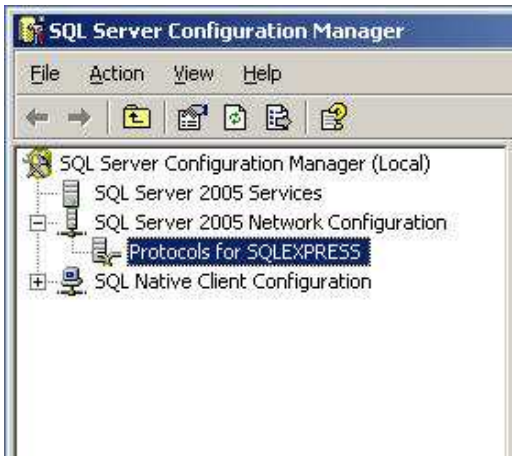


Leave default settings. When the installation is completed, click “Finish”.

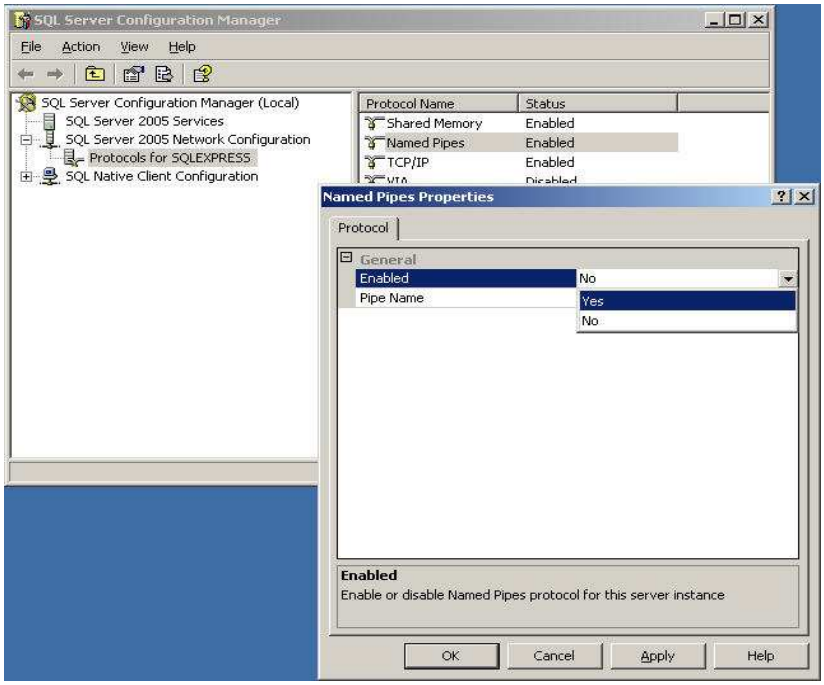
2.1.6. Modify the settings for MS SQL connections

Attention!

Please assure TCP/IP and Named Pipes are enabled in the SQL Configuration tool. To do this, go to Start->Programs->Microsoft SQL Server 2005->Configuration Tools->SQL Server Configuration Manager.



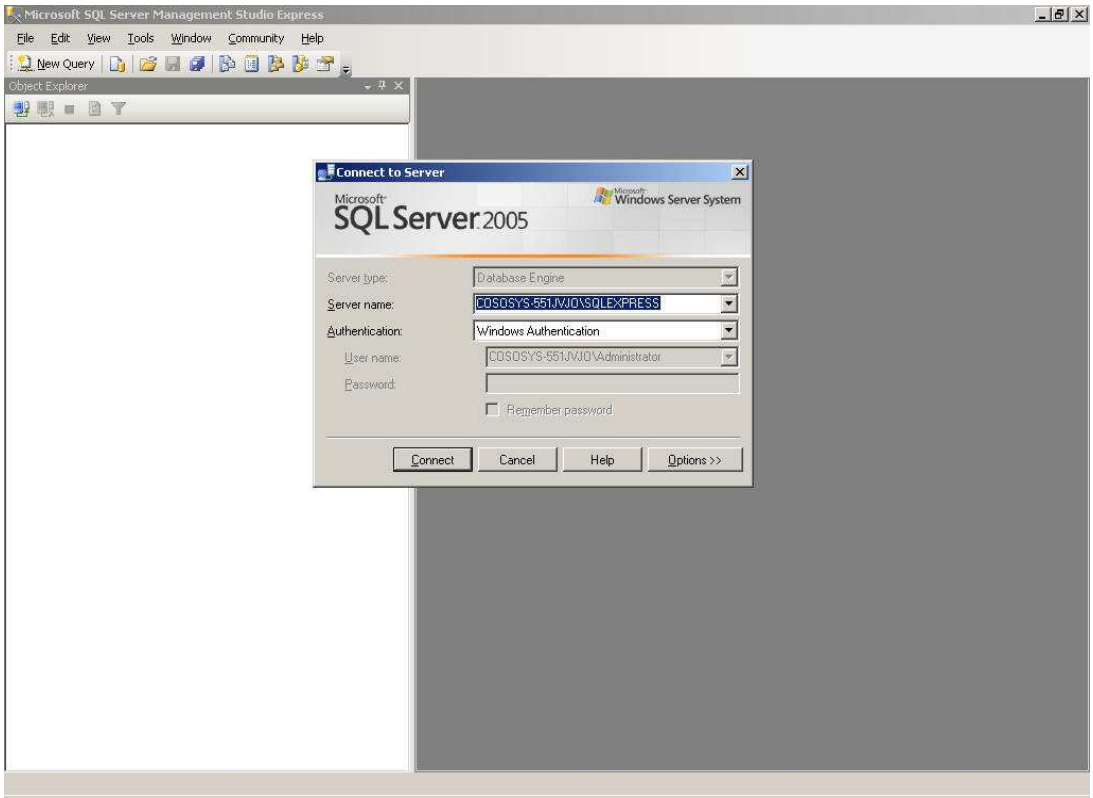
From the list on the left side select “Protocols for SQLEXPRESS”, then set Named Pipes and TCP/IP to enabled.



Create a new user: EPP and a database: EPP by following these steps:

2.1.7. Launch the SQL Server Management Studio

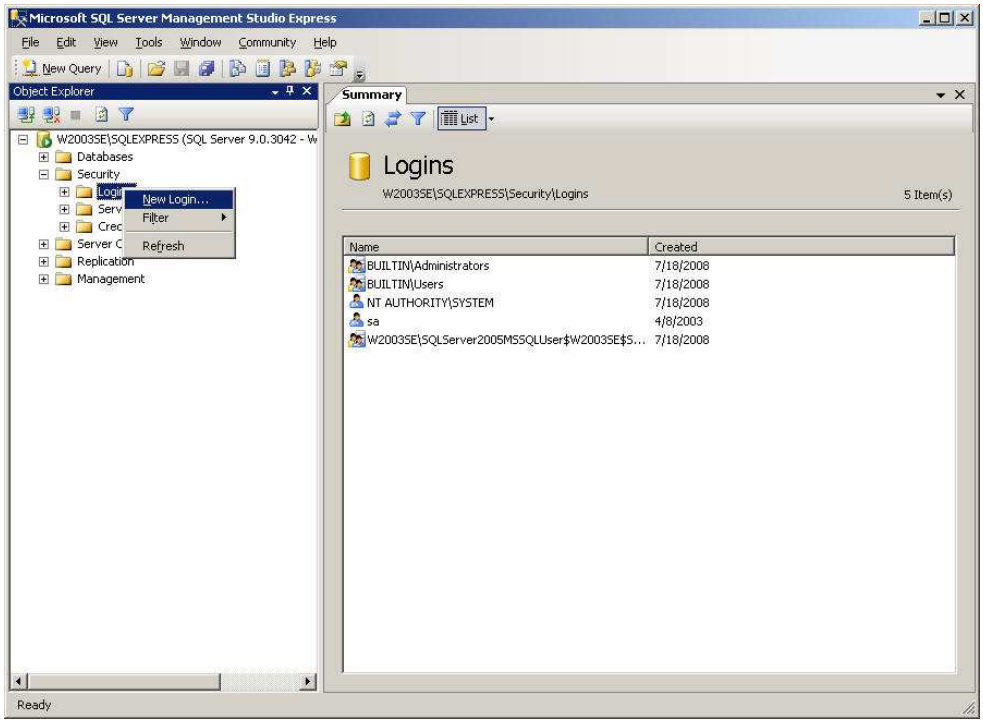
Start->Programs->Microsoft SQL Server 2005->SQL Server Management Studio Express. Connect to the Database Engine using Windows Authentication (default settings).



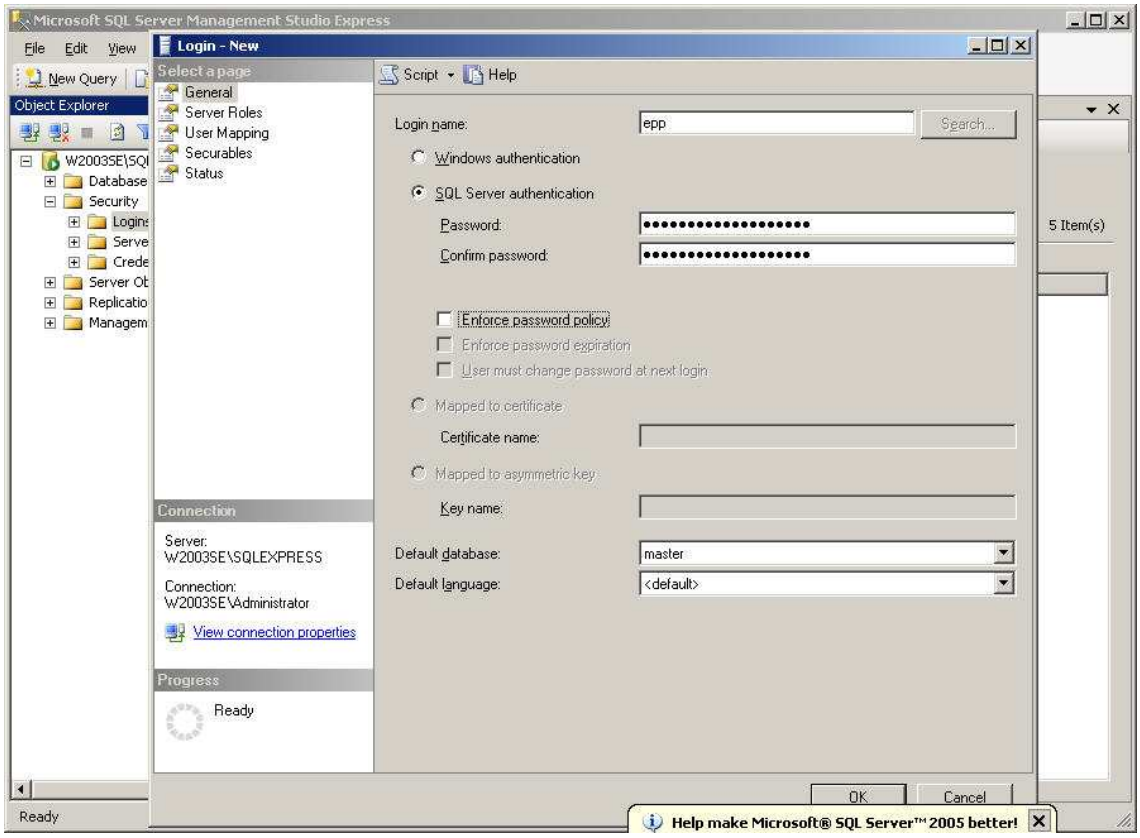
2.1.8. Create a new database user

To create a new database user, follow these steps:

From the SQL Server Management Studio Express access the "Security" folder, then right-click "Logins" folder and select "New Login…"



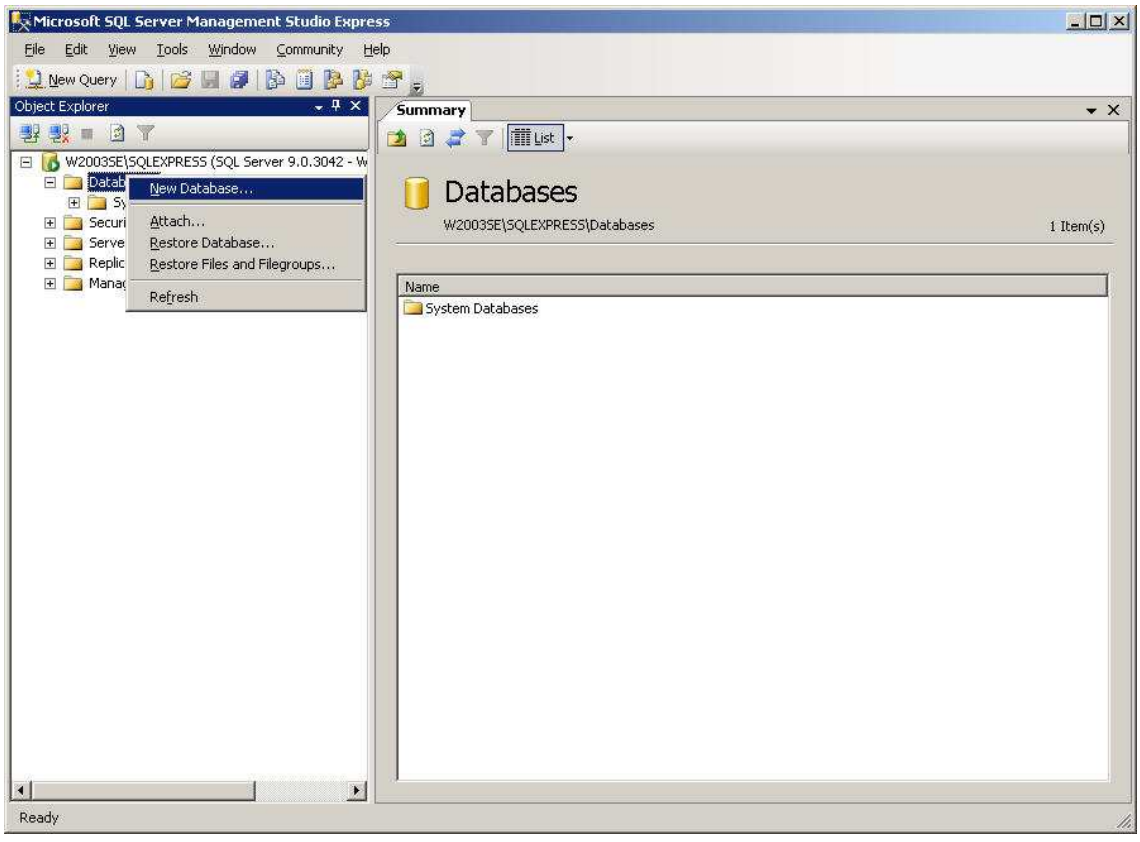
From the "New Login" window, choose "SQL Server authentication" and type in the login name "epp" for this new user and the correspondent password for this database user. Uncheck all options (Enforce password expiration, User must change password at next login, etc).



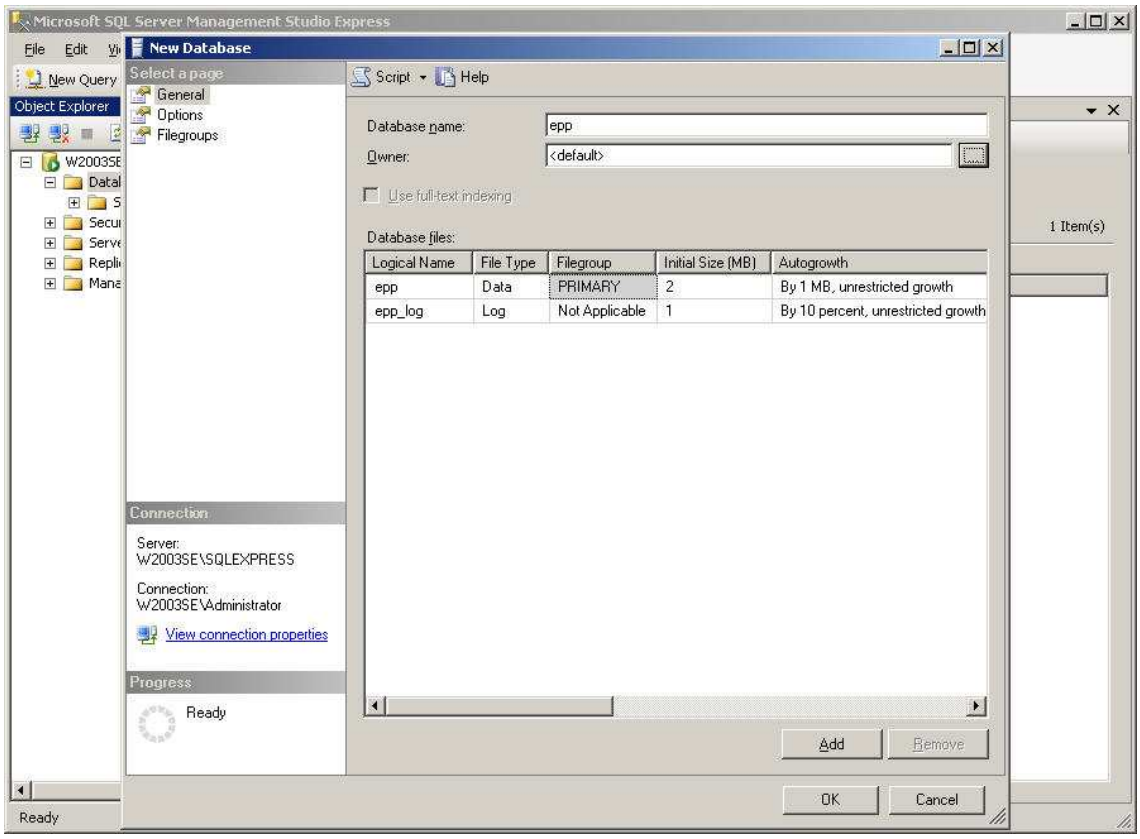
Click "OK" to finish. Now you should see a new user called EPP.

2.1.9. Create a new database.

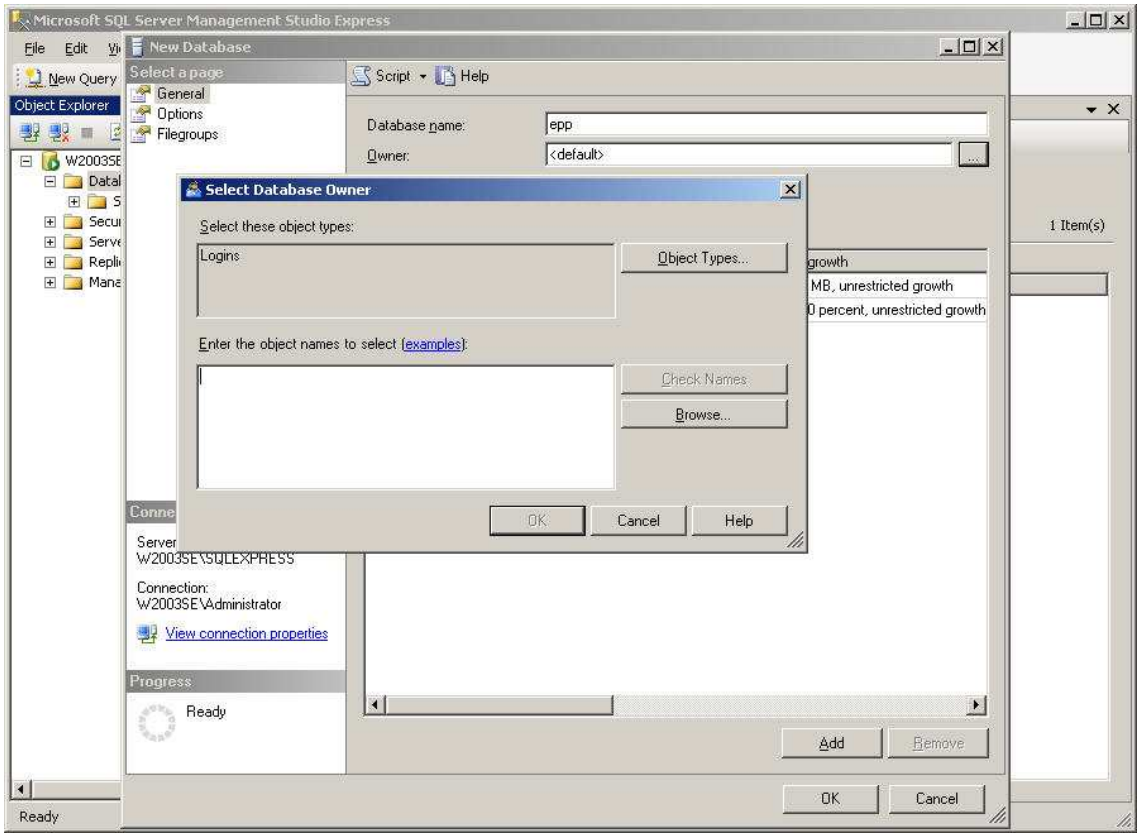
After you have created a new user, you need to create a new database.



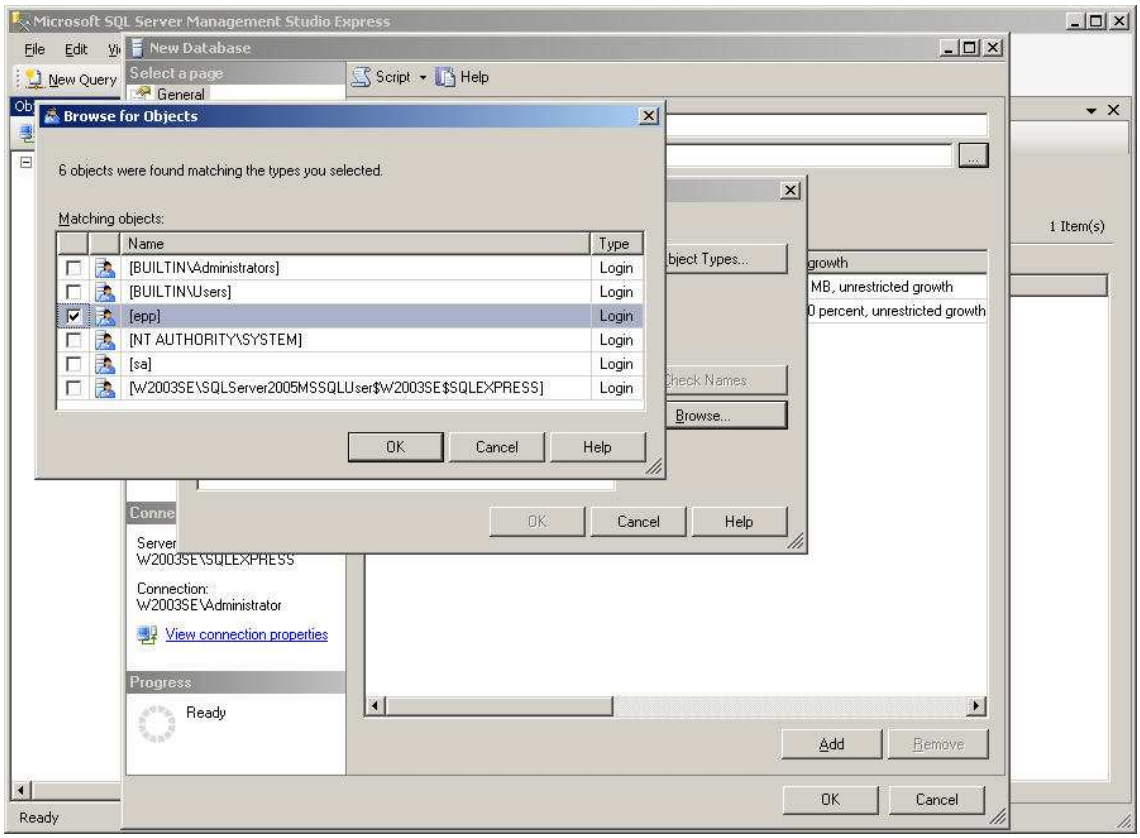
To do this, right-click the "Databases" directory and select "New Database…" In the "Database name" enter "EPP" and set the owner of the database to be your previously created EPP user.



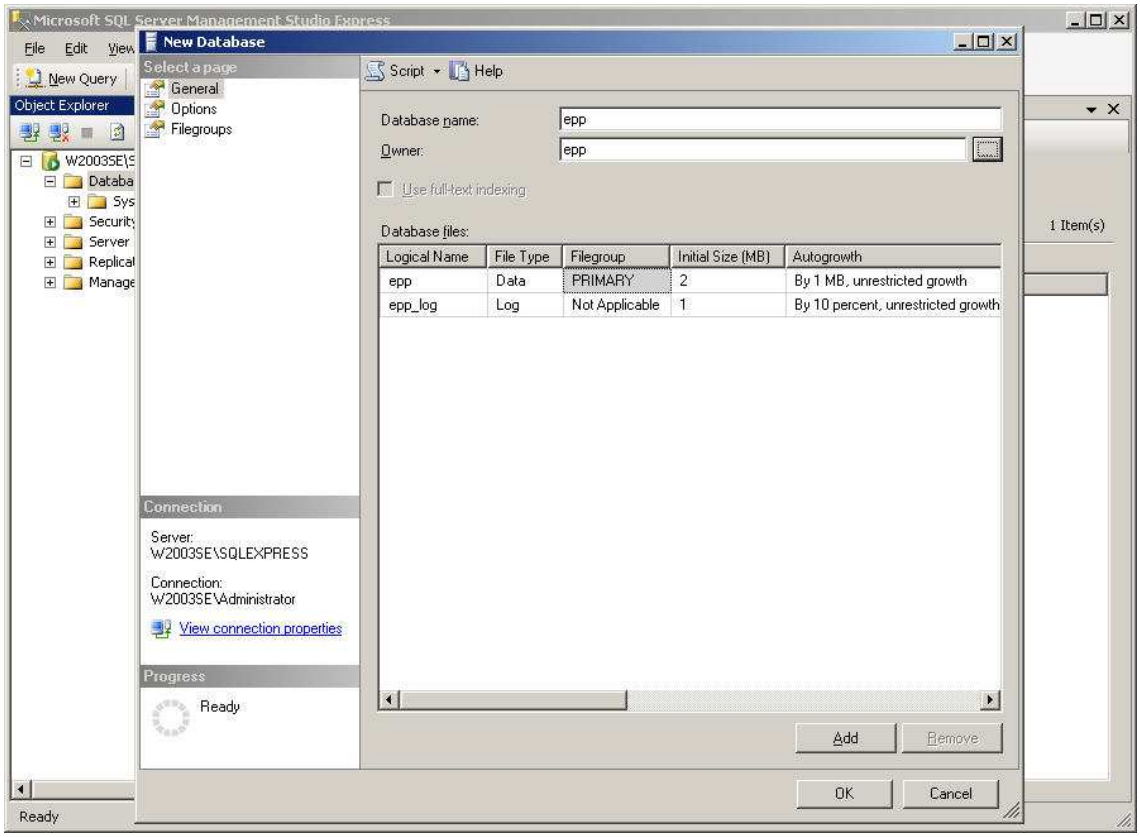
You can do this by clicking the browsing mark next to the "default" owner.



In the new window click on "Browse". A list of available users will appear.

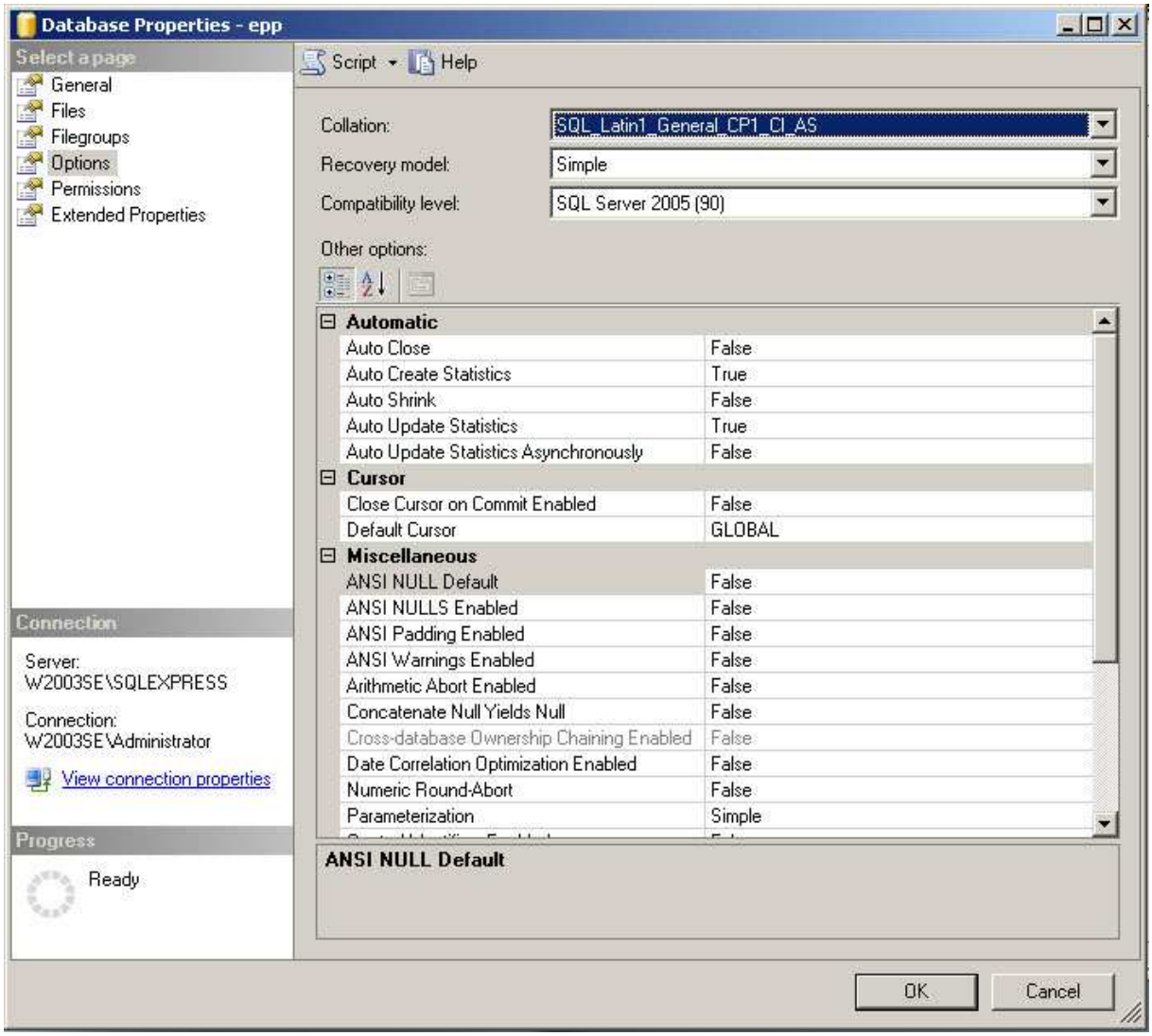


Check the box next to the user "epp" and click "OK"



Notice that the Owner has been changed to “epp”. Click “OK” to finish.

Please make sure that you set the correct Collation for this database. This is essential for the correct display of characters. This can be done by right-clicking the newly created database, selecting “Properties”, then “Options” from the left side of the window and choosing “SQL_Latin1_General_CP1_CI_AS” from the list of collations.



Test your configuration by disconnecting from the current connection (File->Disconnect Object Explorer) and reconnecting again (File->Connect Object Explorer), this time using the "SQL Server Authentication" (the user and password you just created). If you have successfully created your database and login, you should see the "-epp" tag in the server name.

For further information on setting up MS SQL Server, please consult Microsoft Support. http://support.microsoft.com/ph/2855

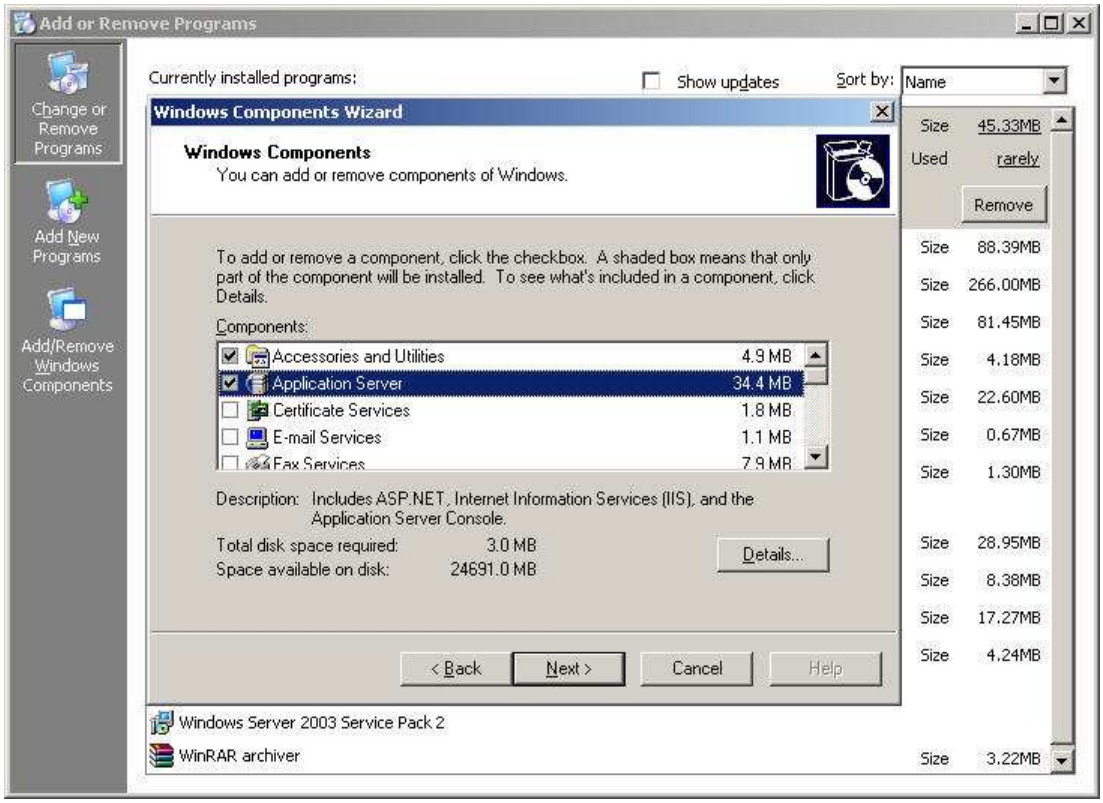
2.1.10. Install IIS version 6.0 on Windows Server 2003

Install IIS, if not already present. You can check if IIS is installed by going to Start->Run and typing in "inetmgr". If the Internet Information Services (IIS) Manager opens, than means you have IIS already installed)

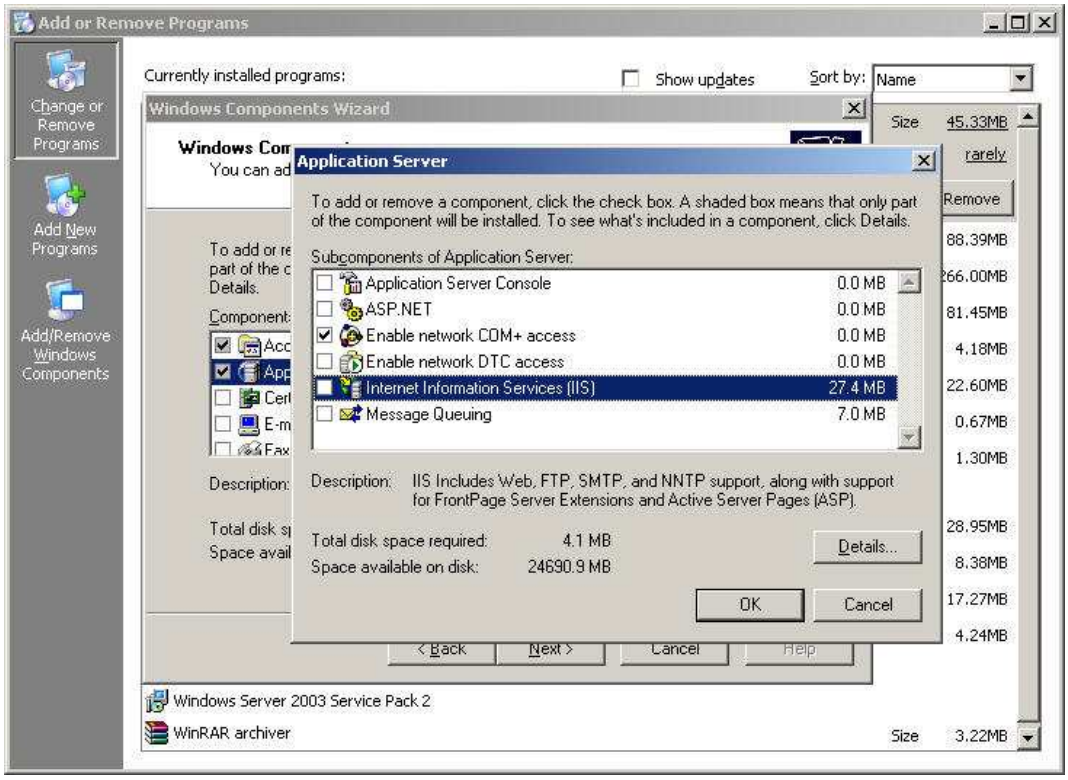
In case IIS is not installed you will need the Windows Server™ 2003 CD/DVD. Follow these steps:

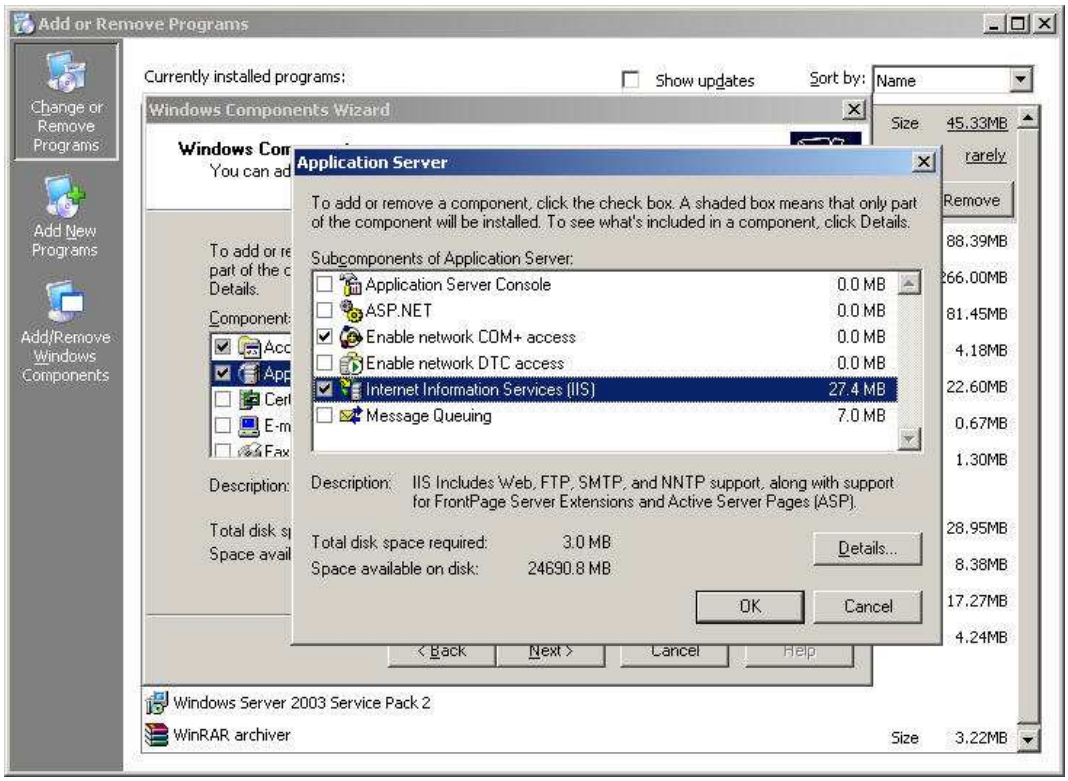
Go to Start->Settings->Control Panel->Add or Remove Programs->Add/Remove Windows Components.

From the Windows Components Wizard, select “Application Server” and click on “Details…”



In the new window, check the box next to “Internet Information Services (IIS) and click “OK”.





Wait for the installation process to finish.

Please note that in some cases, the “Application Server” component will not appear in the Add/Remove Windows Components Wizard. In case you do not see “Application Server” please look for “Internet Information Service” and check the box next to it. If IIS is already installed but is not working, follow the previous steps to remove it, and then use your CD/DVD to reinstall the component.

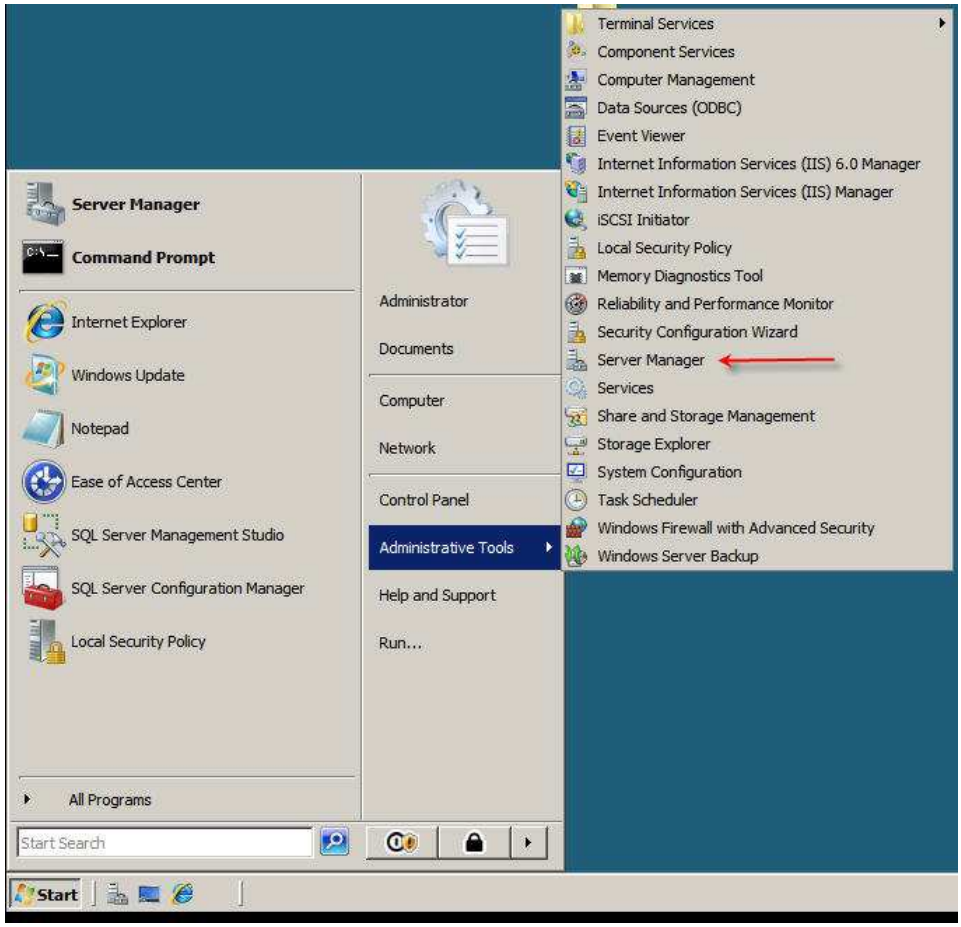
If you are still experiencing difficulties installing IIS, please visit Microsoft Support.

http://www.microsoft.com/technet/prodtechnol/WindowsServer2003/Library/IIS/750d3137-462c-491d-b6c7-5f370d7f26cd.mspx?mfr=true

2.1.11. Install IIS version 7.0 on Windows Server 2008 or install additional necessary Web Server roles

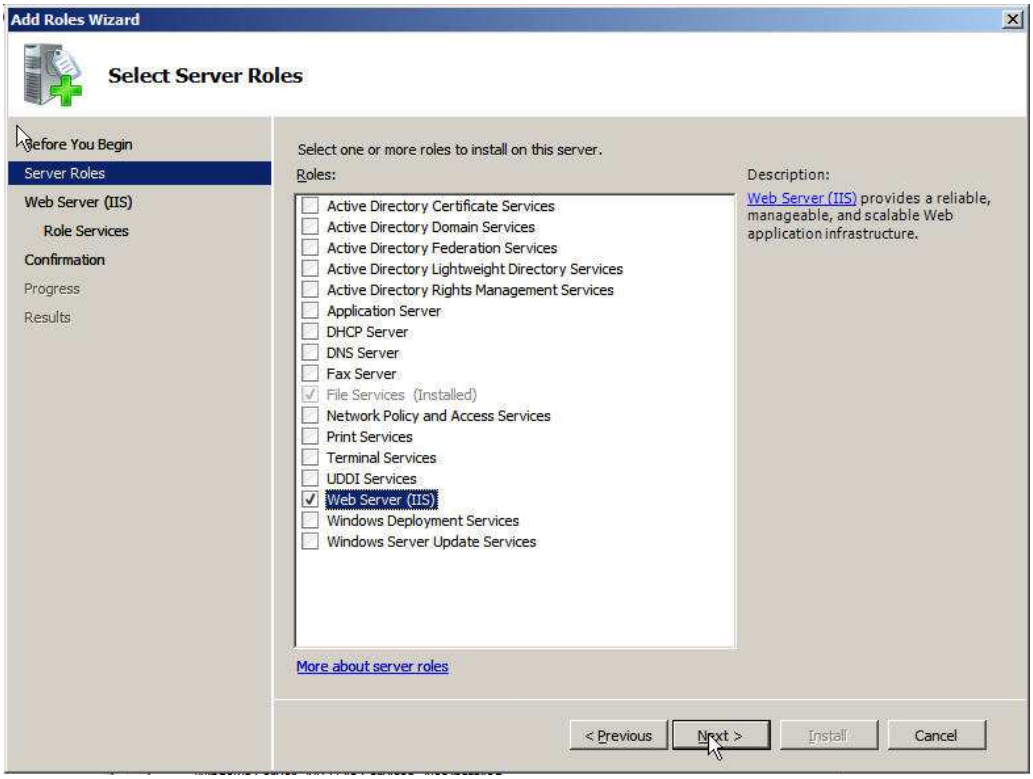
In order to install IIS please follow these steps:

1. Start Server Manager from Start Menu ->Administrative Tools->Server Manager

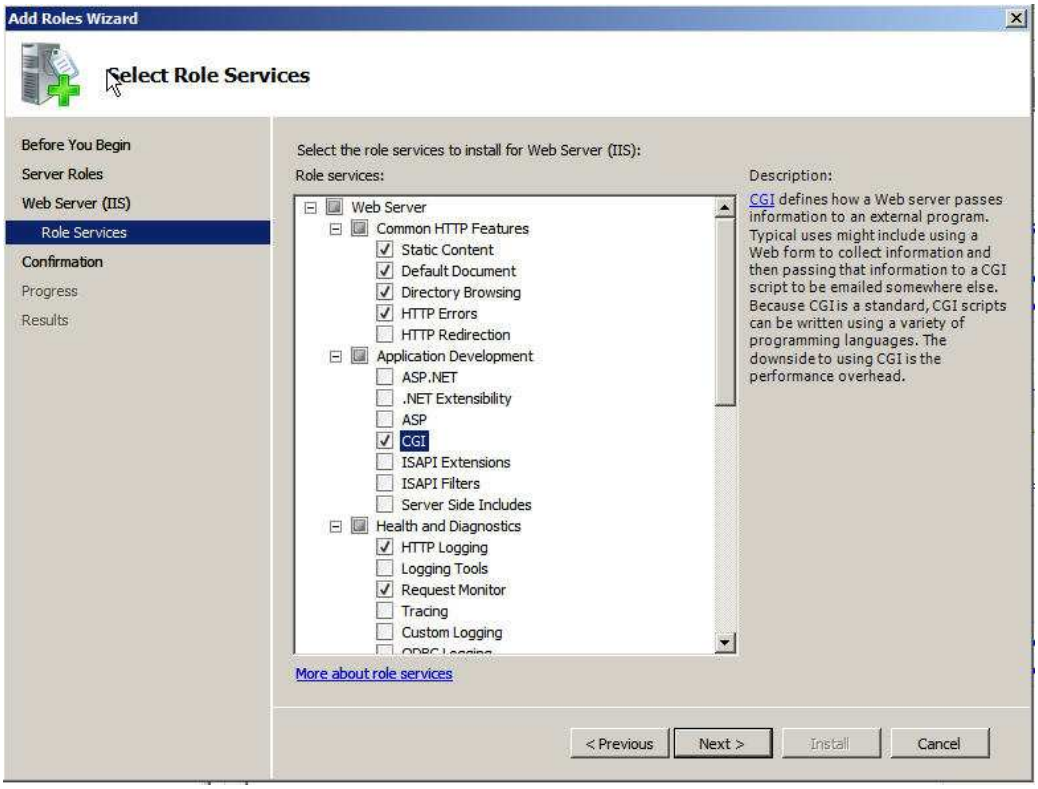


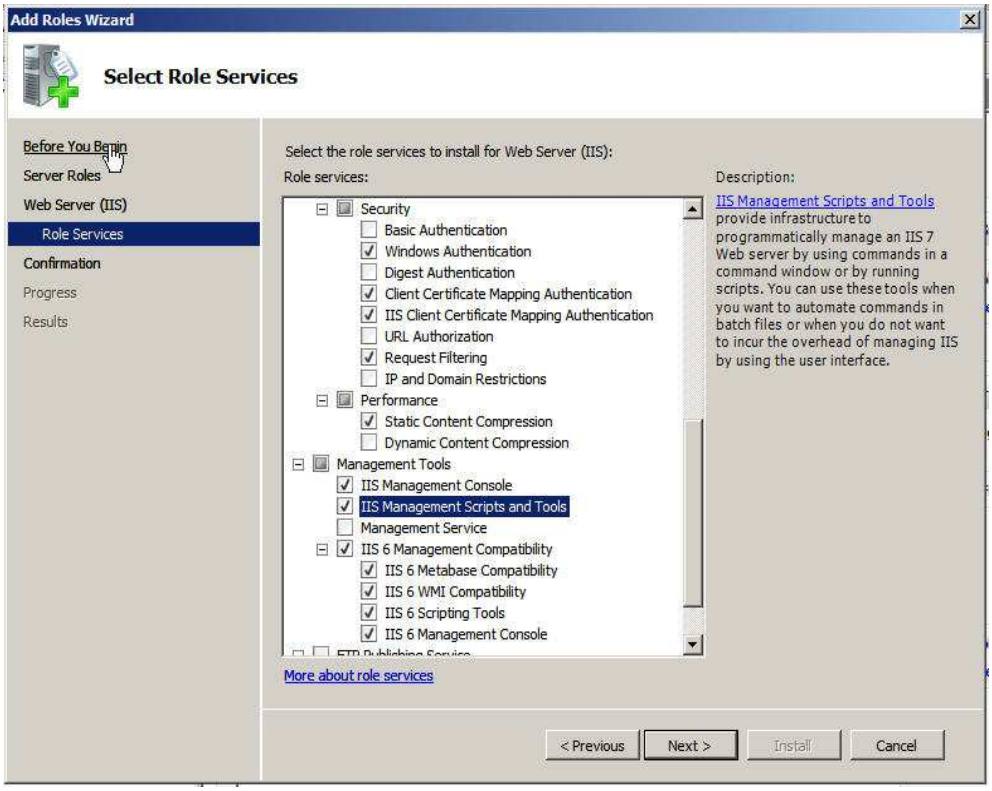
2. Add a Web Server Role to the machine

3. Select a Web Server and click the „Next" button.



4. Select the Role Services(Static Content, Default Document, Directory Browsing, HTTP Errors, CGI, HTTP Logging, Request Monitor, Windows Authentication, Client Certificate Mapping Authentication, IIS Client Certificate Mapping Authentication, Request Filtering, Static Content Compression, IIS Management Console, IIS Management Scripts and Tools and all files from IIS 6 Management Compatibility) as presented below:





5. Install the Role with the required services and restart the server.

2.1.12. Install PHP

PHP is installed automatically during the setup process of Endpoint Protector Server.

If you would like to install PHP manually, we recommend using the following command

msiexec.exe /i php-5.2.6-win32-installer.msi INSTALLDIR="c:/php" ADDLOCAL=MainExecutable,iis4ISAPI,ext_php_mssql,ext_php_mbstring,ext_php_openssl,ext_php_soap,ext_php_xmlrpc,ext_php_xsl,ext_php_ldap,ext_php_curl,ext_php_gd2,ext_php_smtp,ext_php_sockets,ext_php_zip -qn

(You can install PHP version 5.2.3 as a minimum requirement, but we recommend version 5.2.6. Additionally, you can remove the –qn parameter in order to add more extensions to php, depending on other sites you have running on the same web server)

This command will assure that all the correct extensions for PHP are installed automatically.

The PHP configuration itself will be done automatically by the Endpoint Protector Configurator.

2.1.13. Using a database from another location

You can configure Endpoint Protector Server to use a database which is on a different computer, thus reducing the load on the server.

In order to make Endpoint Protector run on one server and the database on another, please follow the steps:

1. Follow the instructions from the page bellow in order to be sure that

the remote connections are enabled in your SQL Server.

http://support.microsoft.com/default.aspx?scid=kb;EN-US;914277

2. In the last part of the installation (Endpoint Protector Configurator), use **one** of the following as instance name:

- ComputerName\SQLInstanceName (ex. Steve_PC\SQLExpress)
- IP\ SQLInstanceName (ex. 89.65.215.39\SQLExpress)

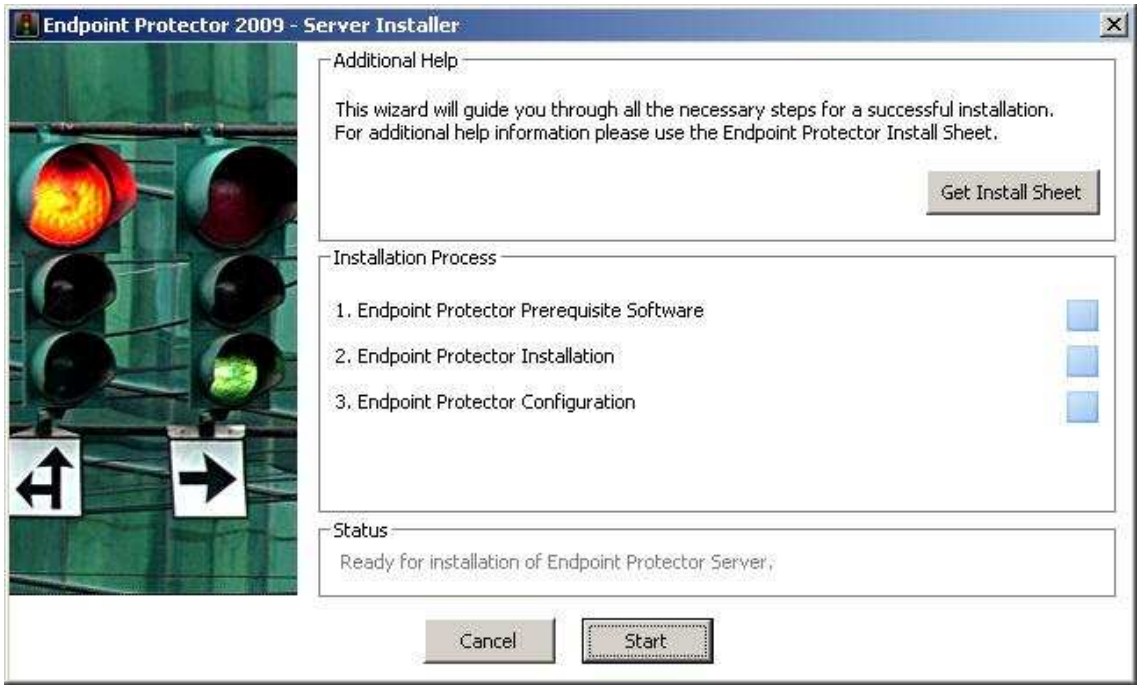
Depending on your network configuration.

2.1.14. Endpoint Protector Server installation

You will have received the .ZIP file containing the Endpoint Protector Setup files. The server installation contains the installation files for OpenSSL, PHP 5.2.6 for Windows and also configures the IIS and PHP settings for you.

Please extract them to a temporary folder and launch **"EndpointProtectorServerInstaller.exe"**.

This Wizard allows you to install all necessary components simply and easily.



In case you are not sure that you have all necessary requirements, you can consult the Install Sheet by clicking on the "Get Install Sheet" button.

Please note that this is a .PDF document and you require a PDF reader to open it.

Click "Start" to proceed.

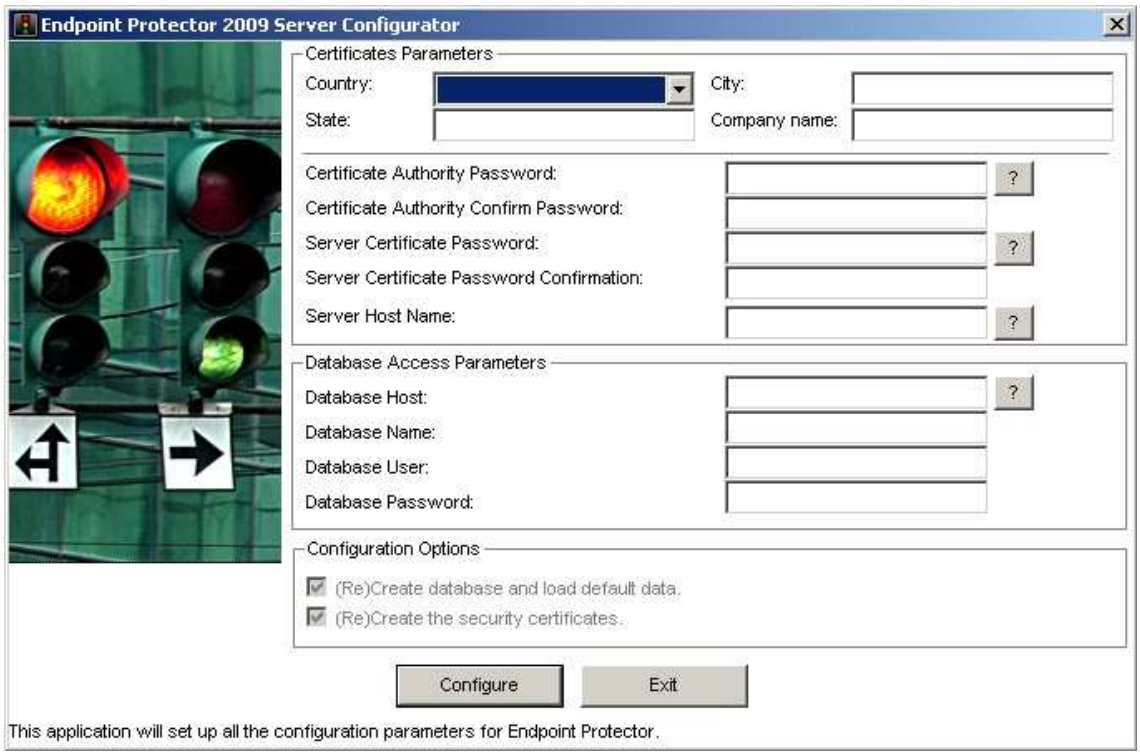
Simply follow the on-screen instructions for each setup wizard and install all components with **default settings**.

Please note that after the Prerequisite Software and Endpoint Protector Installation you will need to click on "Continue" to proceed with the installation.

When the installation finishes with the Prerequisite Software and Endpoint Protector Server setup, a configuration wizard will open and ask for some parameters. These parameters are required for the creation of a Certificate Authority, Server Certificate and database access.

Note!

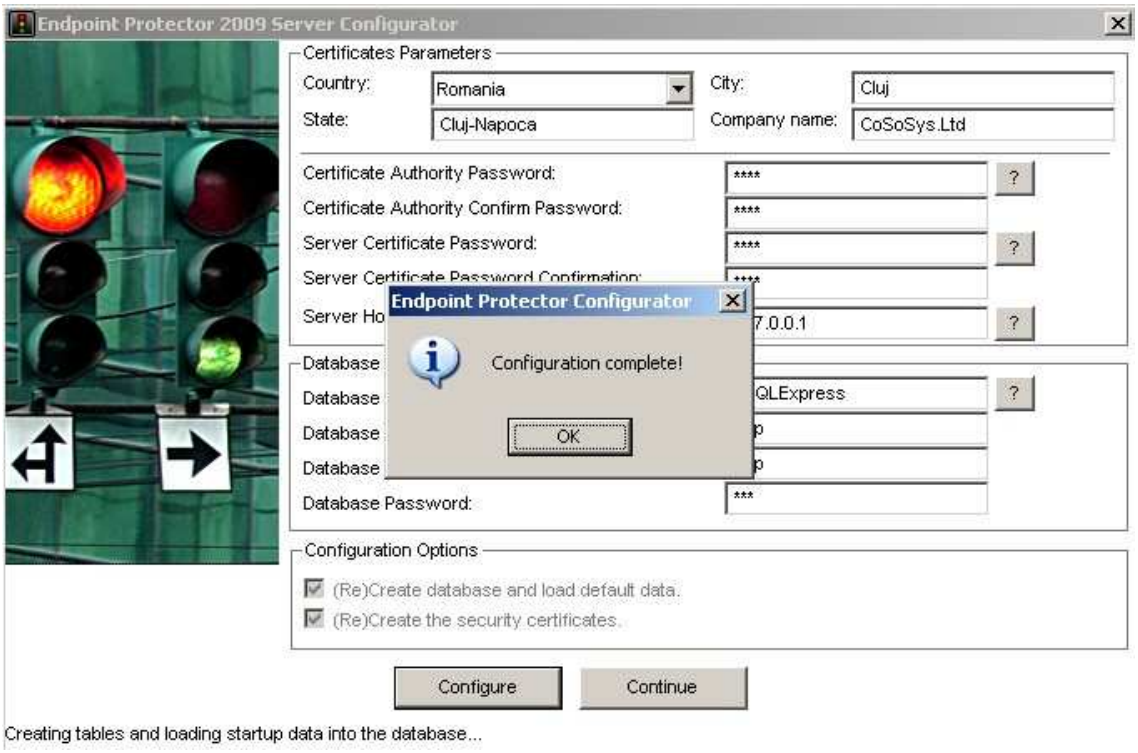
ALL FIELDS ARE REQUIRED!



Enter the required information into the configuration window. You can find what information you need to enter in the paragraph called "Endpoint Protector Configurator". **If you do not know what information you need to enter here, please go to the paragraph called "Endpoint Protector Configurator" now.**

Note!

Endpoint Protector uses by default the 443 port. If this port is occupied by another Website, the "Endpoint Protector Configurator" will prompt you to introduce a different port. This port is also necessary when installing the Endpoint Protector Client.

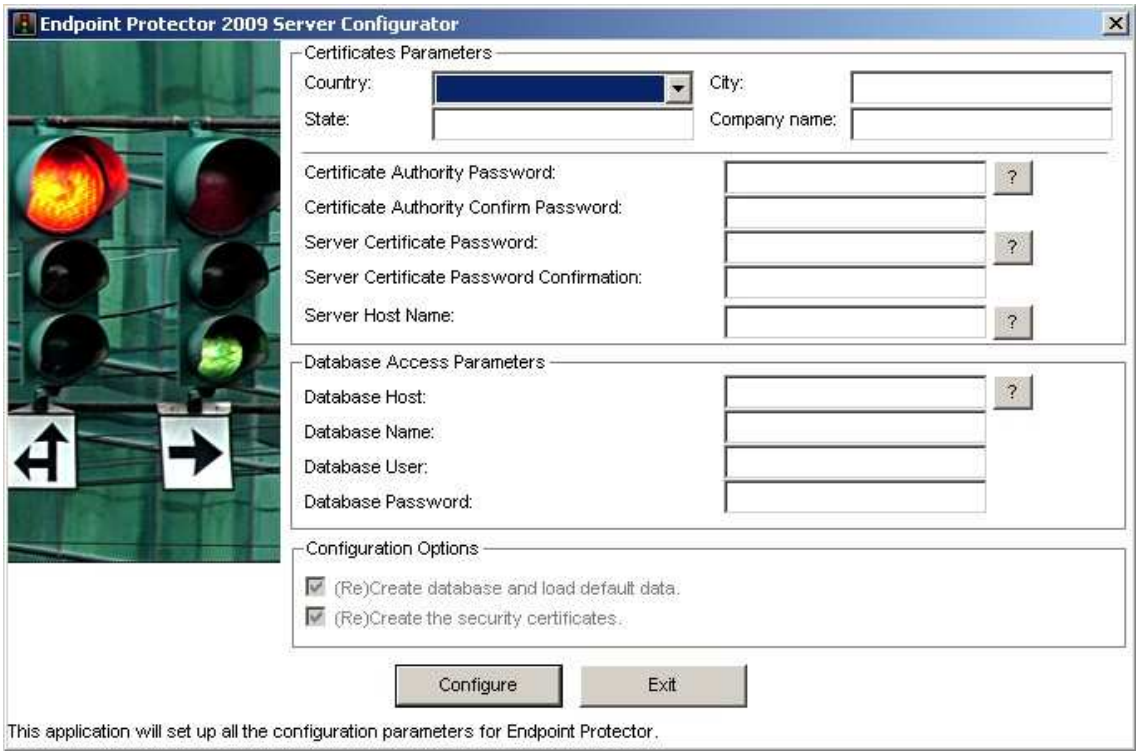


Click the "OK" button and exit the Endpoint Protector Configuration.

After clicking "OK" you can exit the Configurator and continue with the "Final steps".

2.1.15. Endpoint Protector Server Configurator

The Endpoint Protector Server Configurator allows you to configure the parameters of the server.



All fields are necessary.

Certificate Authority Password – You must define a password for certificate authorizations in your system. You use this password when importing a certificate into IIS.

Server Certificate Password – You must define a password for server certificate authorizations. This enables server authentication on the client side. The client verifies the server's identity using ssl mechanism. The server sends the public key of the server certificate as part of SSL key handshake.

Database Host – This is the address to the database itself. If the database is on the same computer where you installed Endpoint Protector Server than the correct format is ".\SQLExpress" – without quotes. If the database is on a different computer, please see the "Using a database from another location" paragraph. Please pay close attention to capital letters; SQLExpress and computer names must be written as such.

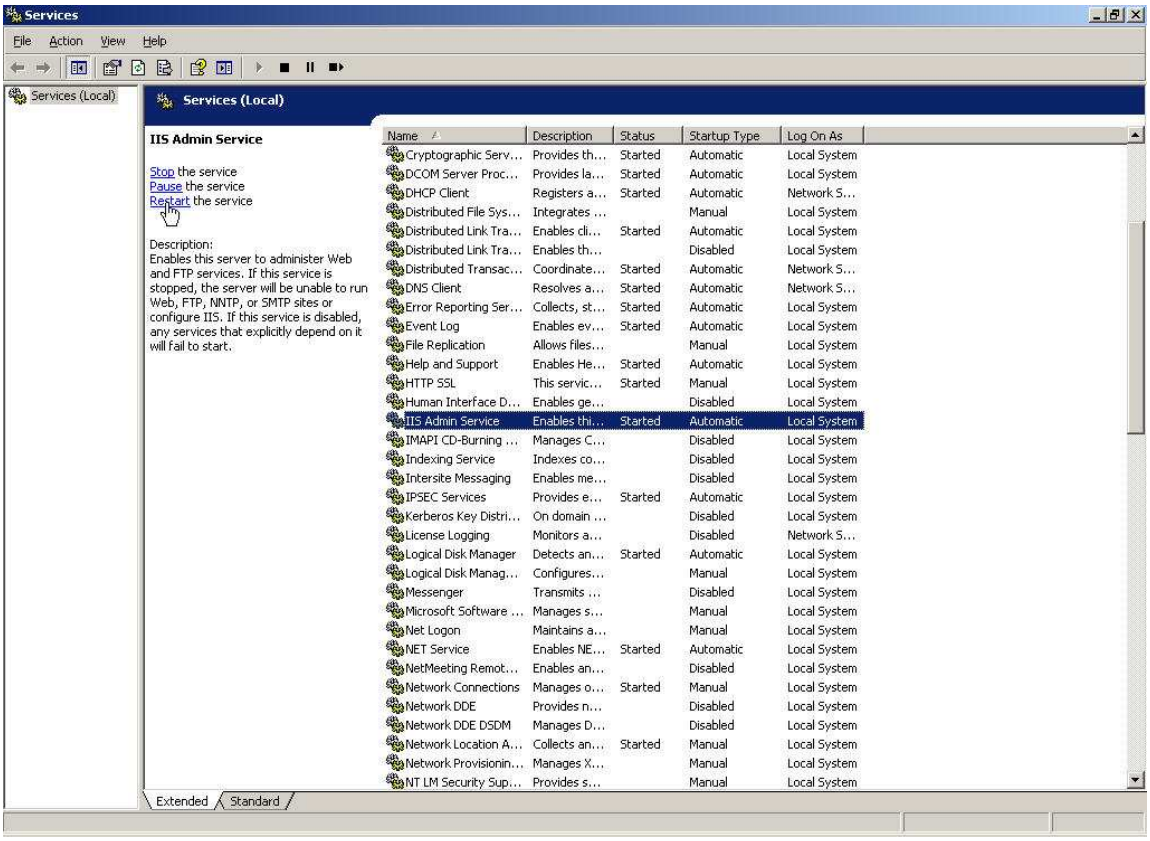
Database Name – The name of the database which you created earlier; in this case "EPP".

Database User – The login that you created for your database (epp).

Database Password – The password you created for the database user.

2.1.16. Final Steps

1. Restart IIS Admin service.
   To do this, go to Start->Run and type in “services.msc” without quote marks. Look for the IIS Admin Service, select it and click restart.

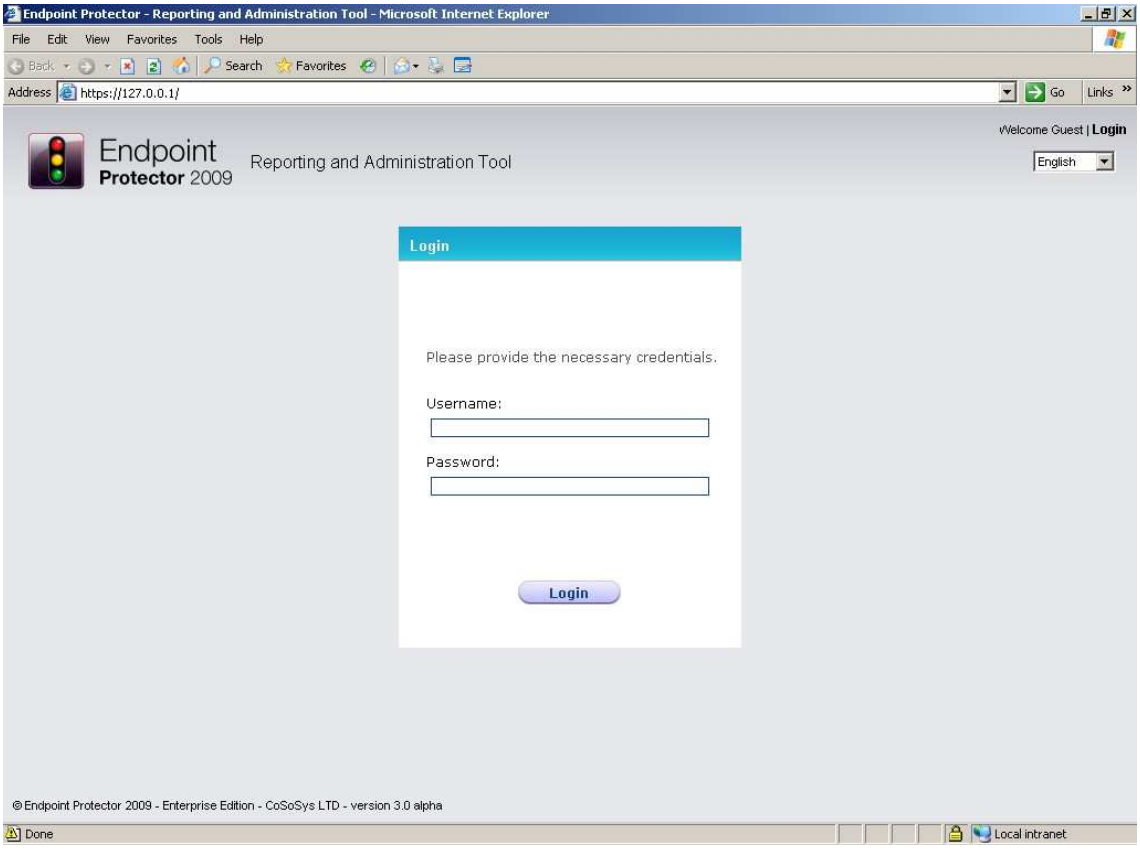


2. Open a browser and go to https://127.0.0.1/index.php

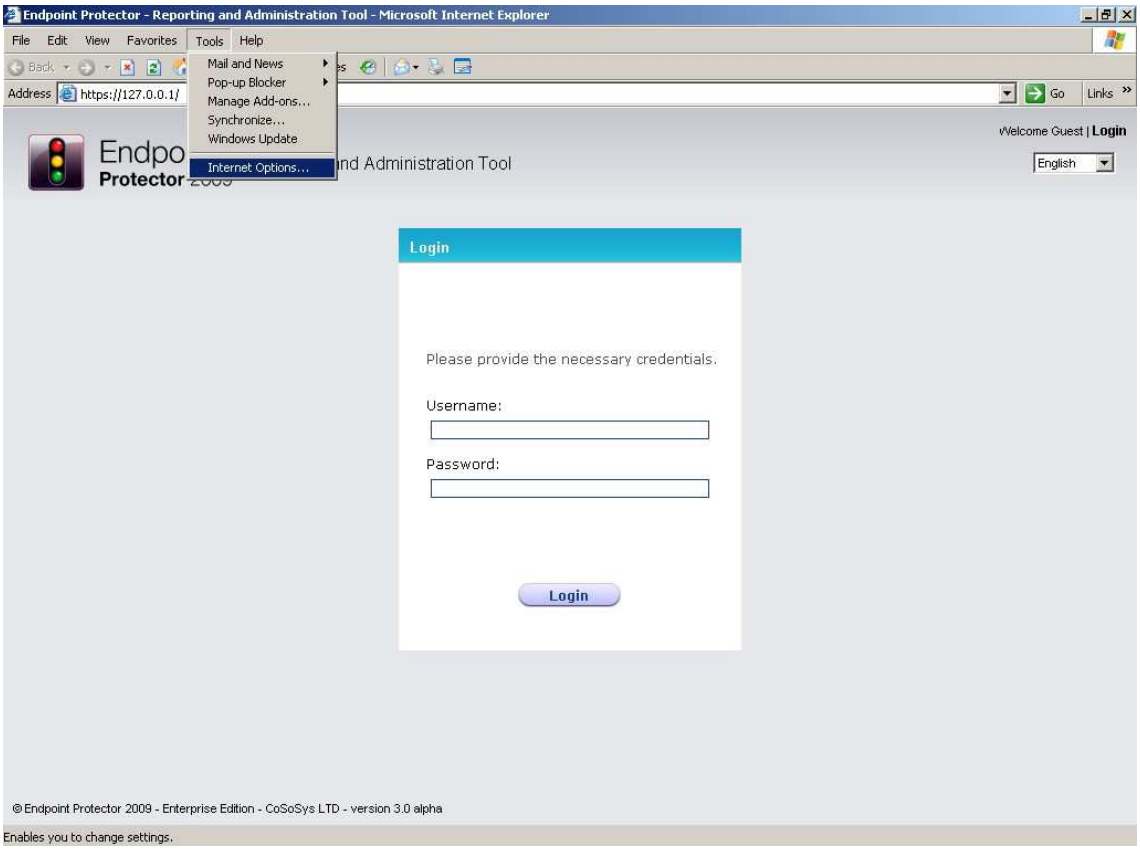
We recommend that you add this page to Internet Explorer’s trusted sites.

The steps for adding this a described in detail in the Endpoint Protector User Manual in the paragraph “Installing Root Certificate to your Internet Browser”.

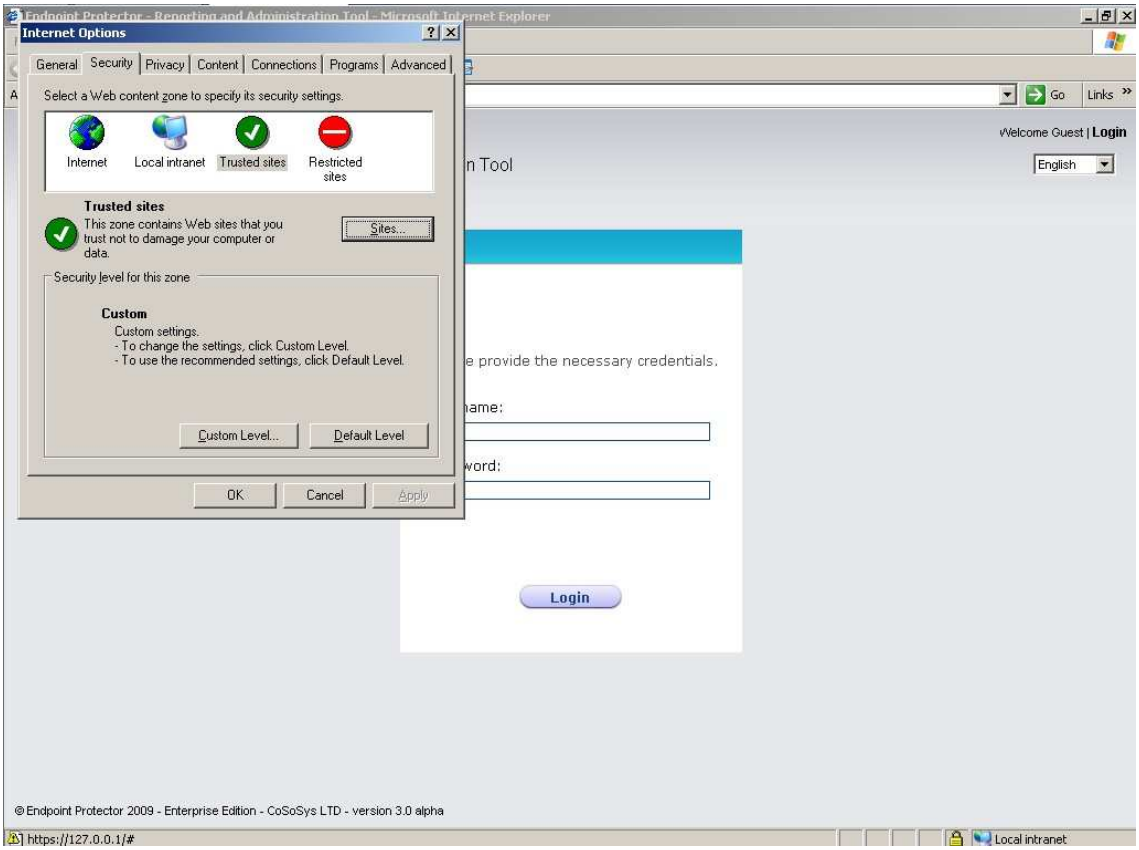
1. Once the final step is complete, you will be able to see the Endpoint Protector Login window.



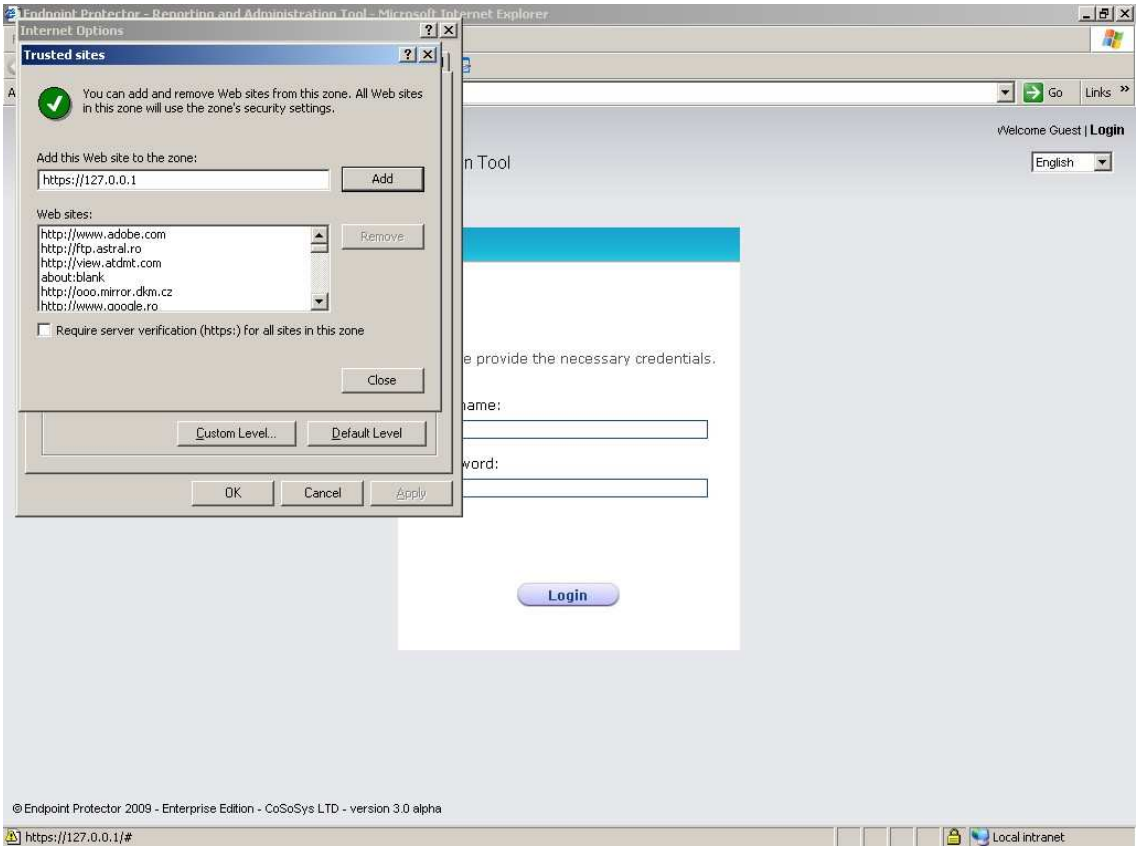
2. Access the "Tools" option from Internet Explorer's menu bar and select "Internet Options".



3. From "Internet Options" click the "Security" tab, select "Trusted sites" and click on "Sites..."



4. If the current site (https://127.0.0.1) does not appear in the text-box, then type it in manually, click "Add" and finally "Close".



Attention!

If you installed a client after setting up the server but no connected devices are reported, even though you have already connected devices to the client, then please check you firewall settings. (See System Requirements for the Client).

2.2. Login Credentials to Endpoint Protector Server

The default username and password for the Endpoint Protector Server 2009 are:

USERNAME: root

PASSWORD: epp2009

To change the user name and password and to create additional administrators please see paragraph "**Error! Reference source not found.**" in the Endpoint Protector User Manual.

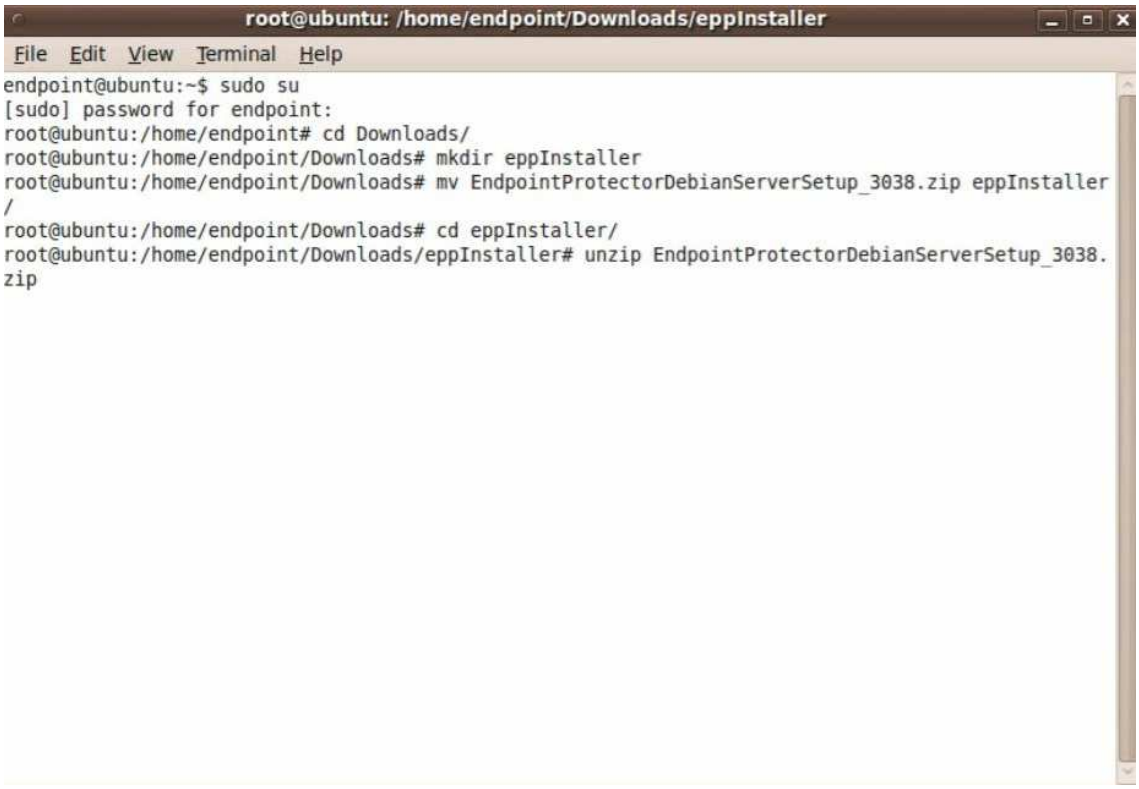
2.3. Linux Server Installation – Debian (Ubuntu)

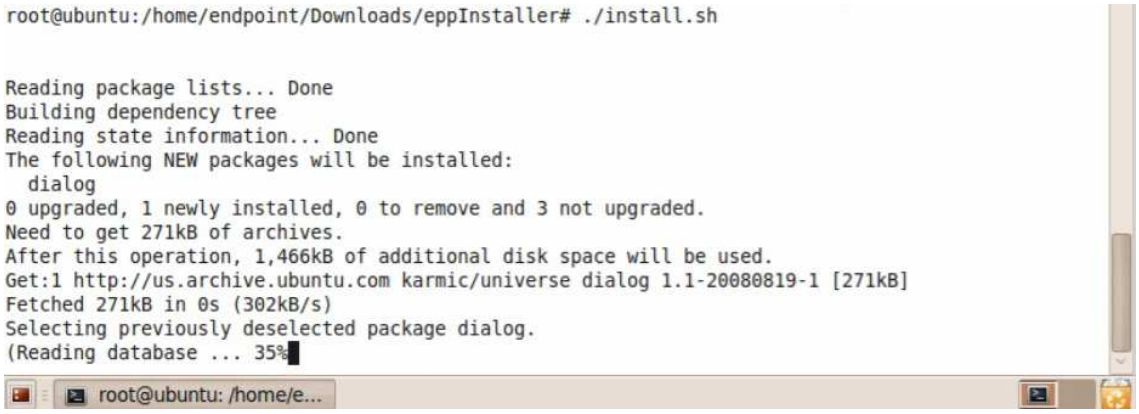
In order to install Endpoint Protector 2009 under Linux, you will need an Internet connection. The reason for this is that the installer downloads all needed components (MySQL, PHP, OpenSSL, etc.) directly from the Internet and also configures them automatically. This saves space and time. If you have already installed some components, such as PHP, then the installer will simply update your existing settings and register the required extensions needed for Endpoint Protector.

Please follow these detailed next steps for a successful install:

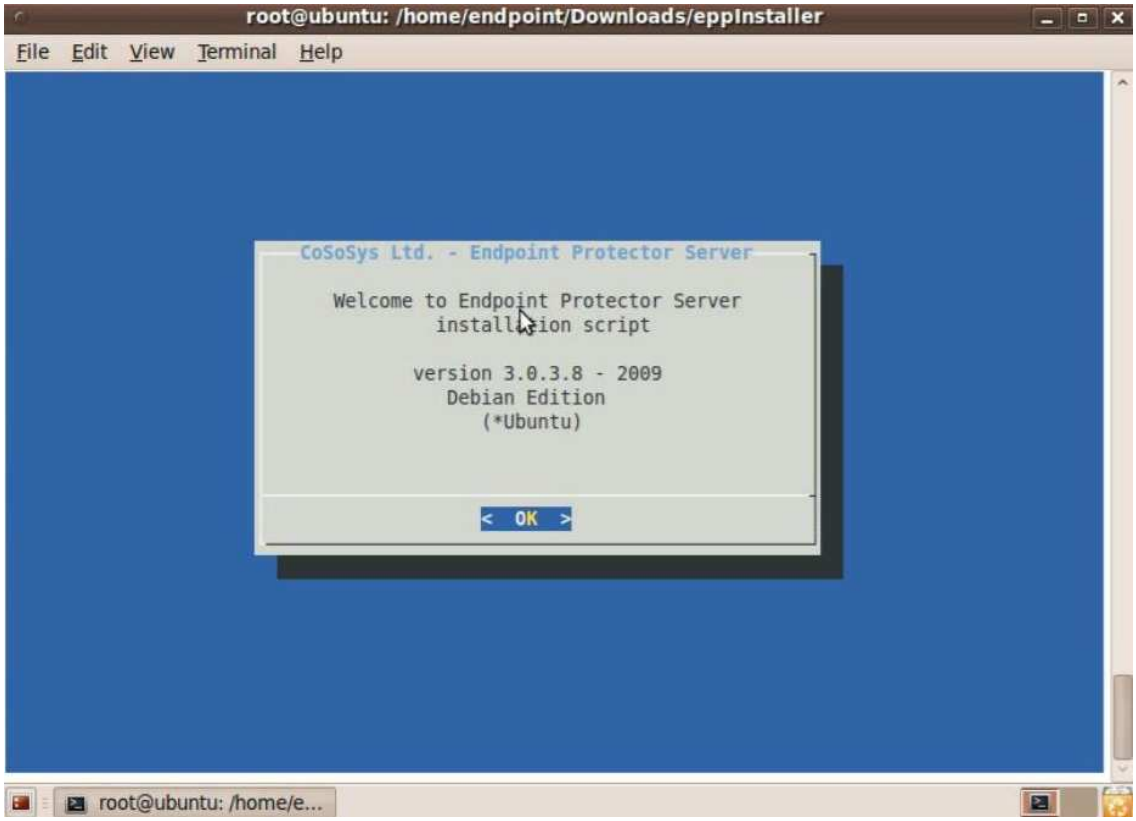
After you have received the .ZIP file from your Endpoint Protector Customer representative:

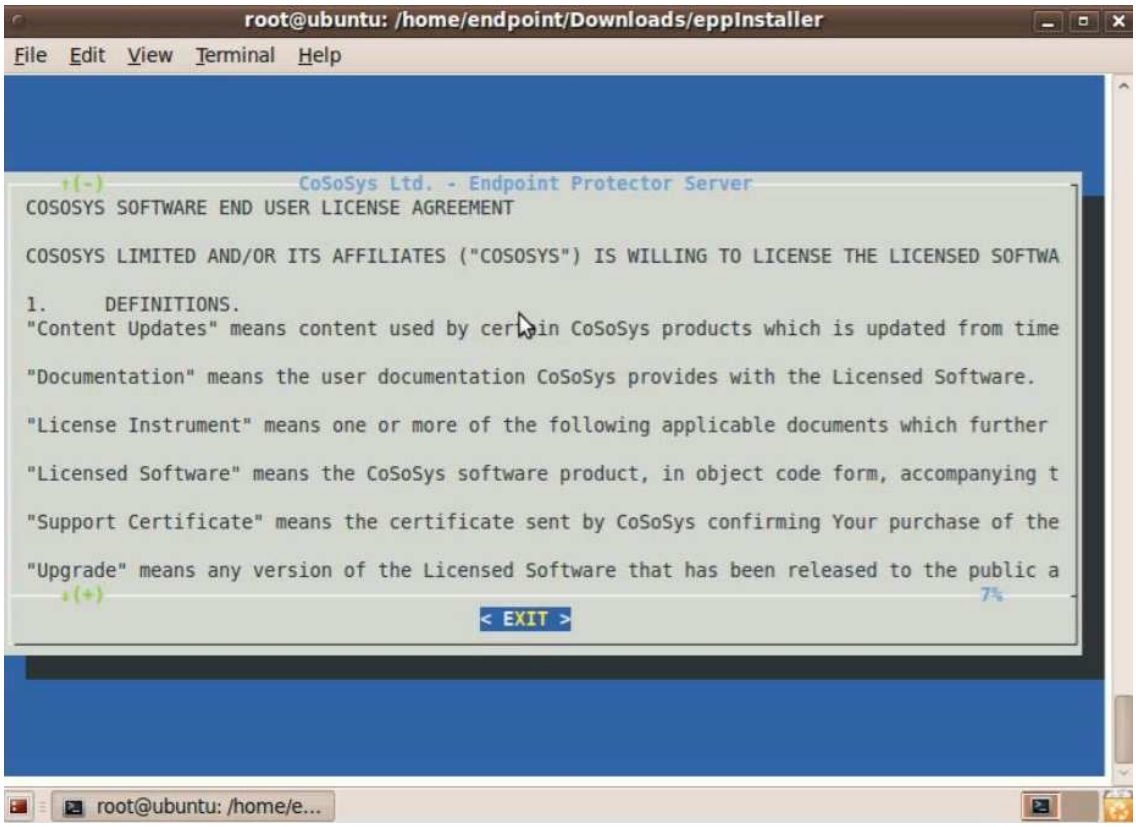
- Create a folder and name it “eppInstaller” and save the zip file inside.
- Unzip the archive into the same folder
  unzip EndpointProtectoDebianServerSetup.zip
- Run the shell script install.sh located in that folder
  sudo ./install.sh, depending on your operating system


root@ubuntu: /home/endpoint/Downloads/eppInstaller
File Edit View Terminal Help
endpoint@ubuntu:~$ sudo su
[sudo] password for endpoint:
root@ubuntu:/home/endpoint# cd Downloads/
root@ubuntu:/home/endpoint/Downloads# mkdir eppInstaller
root@ubuntu:/home/endpoint/Downloads# mv EndpointProtectorDebianServerSetup_3038.zip eppInstaller
/
root@ubuntu:/home/endpoint/Downloads# cd eppInstaller/
root@ubuntu:/home/endpoint/Downloads/eppInstaller# unzip EndpointProtectorDebianServerSetup_3038.
zip

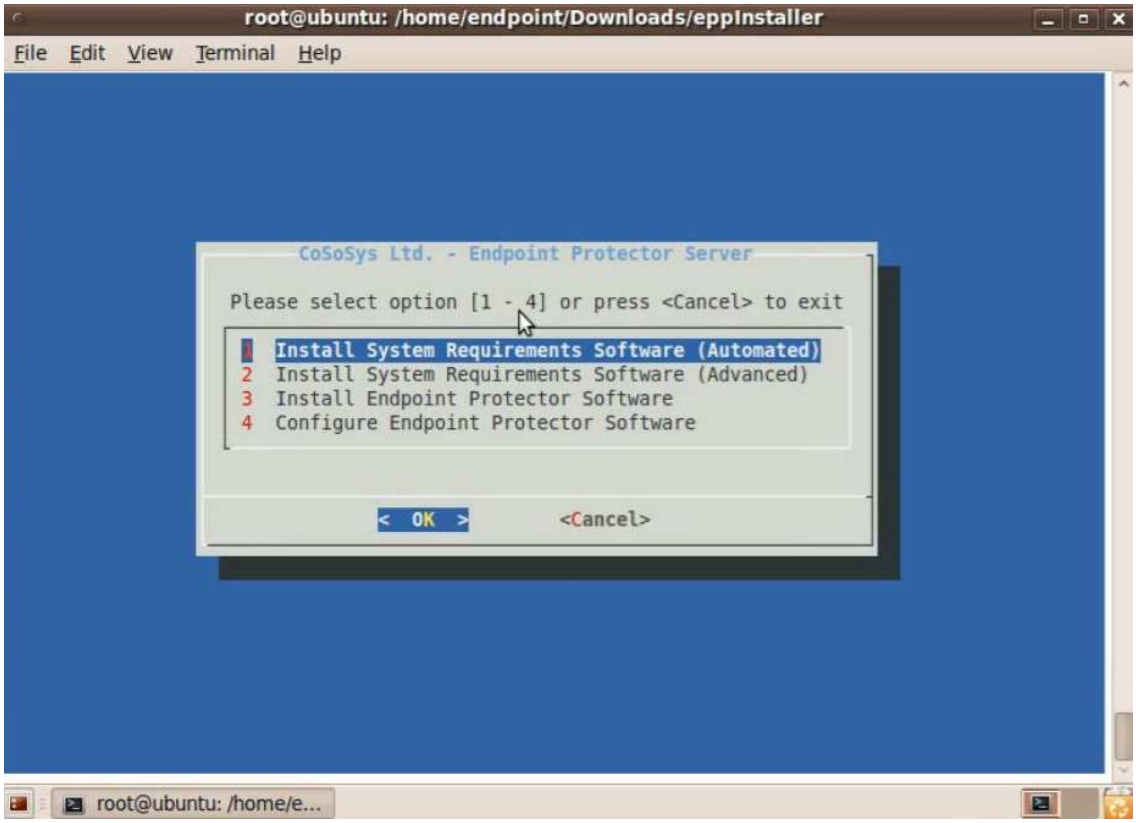

root@ubuntu:/home/endpoint/Downloads/eppInstaller# ./install.sh
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following NEW packages will be installed:
dialog
0 upgraded, 1 newly installed, 0 to remove and 3 not upgraded.
Need to get 271kB of archives.
After this operation, 1,466kB of additional disk space will be used.
Get:1 http://us.archive.ubuntu.com karmic/universe dialog 1.1-20080819-1 [271kB]
Fetched 271kB in 0s (302kB/s)
Selecting previously deselected package dialog.
(Reading database ... 35%
root@ubuntu: /home/e...

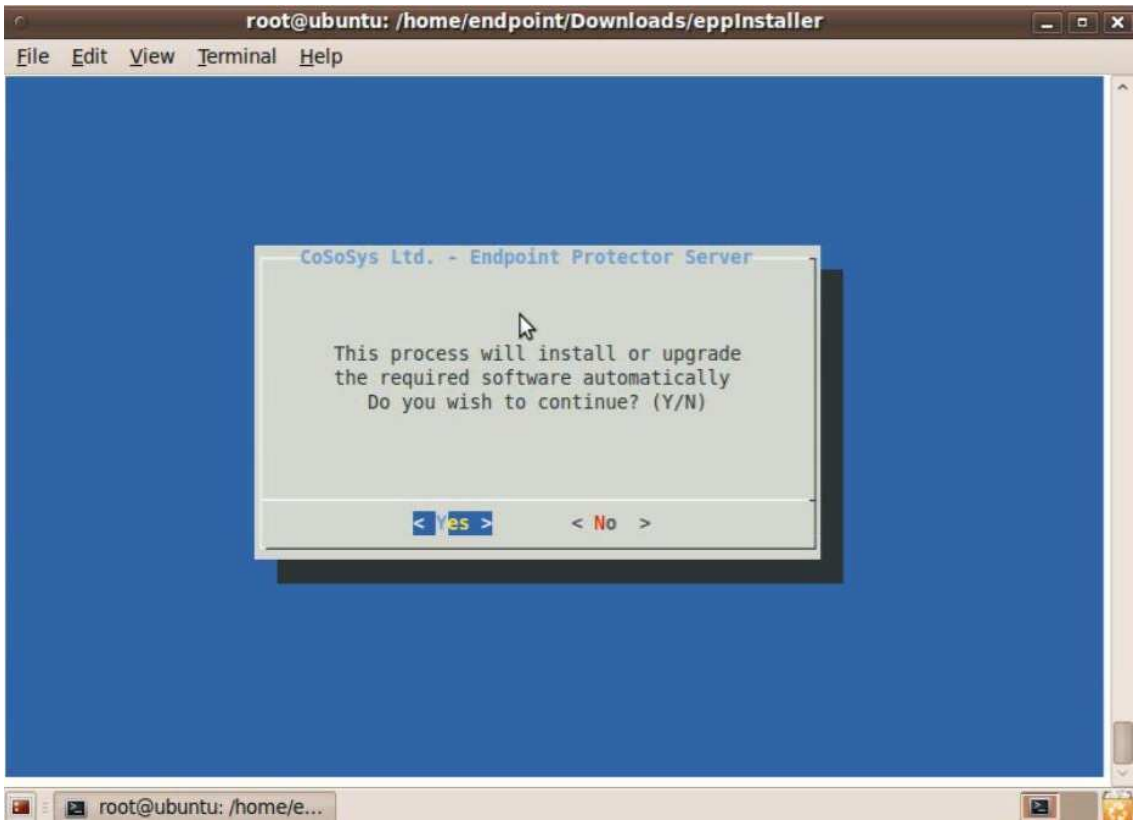
- Follow the steps from the wizard.

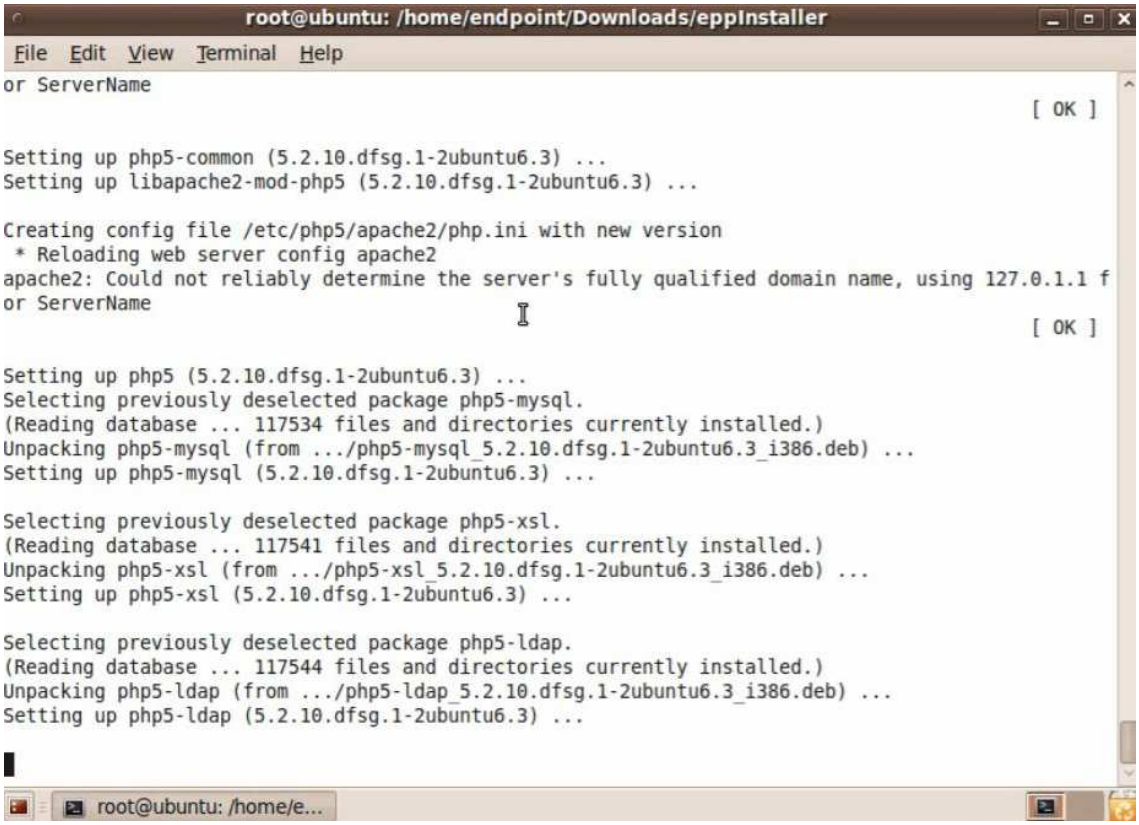


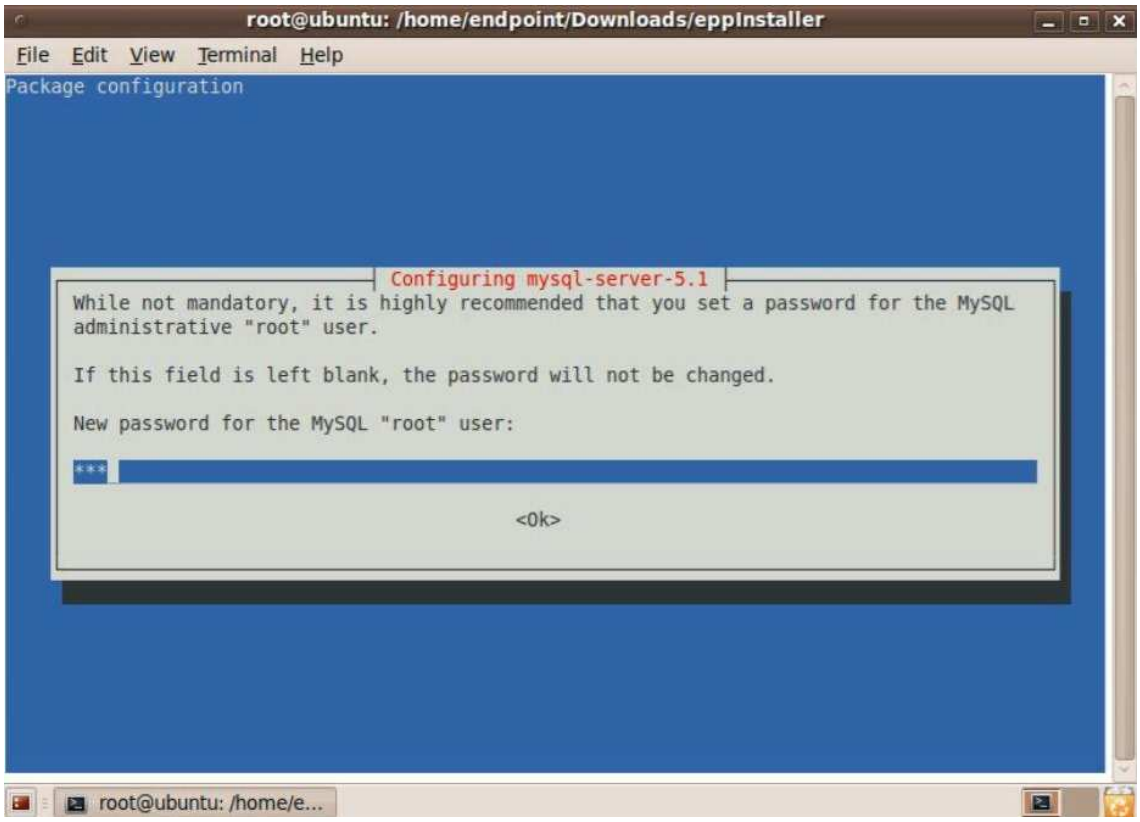


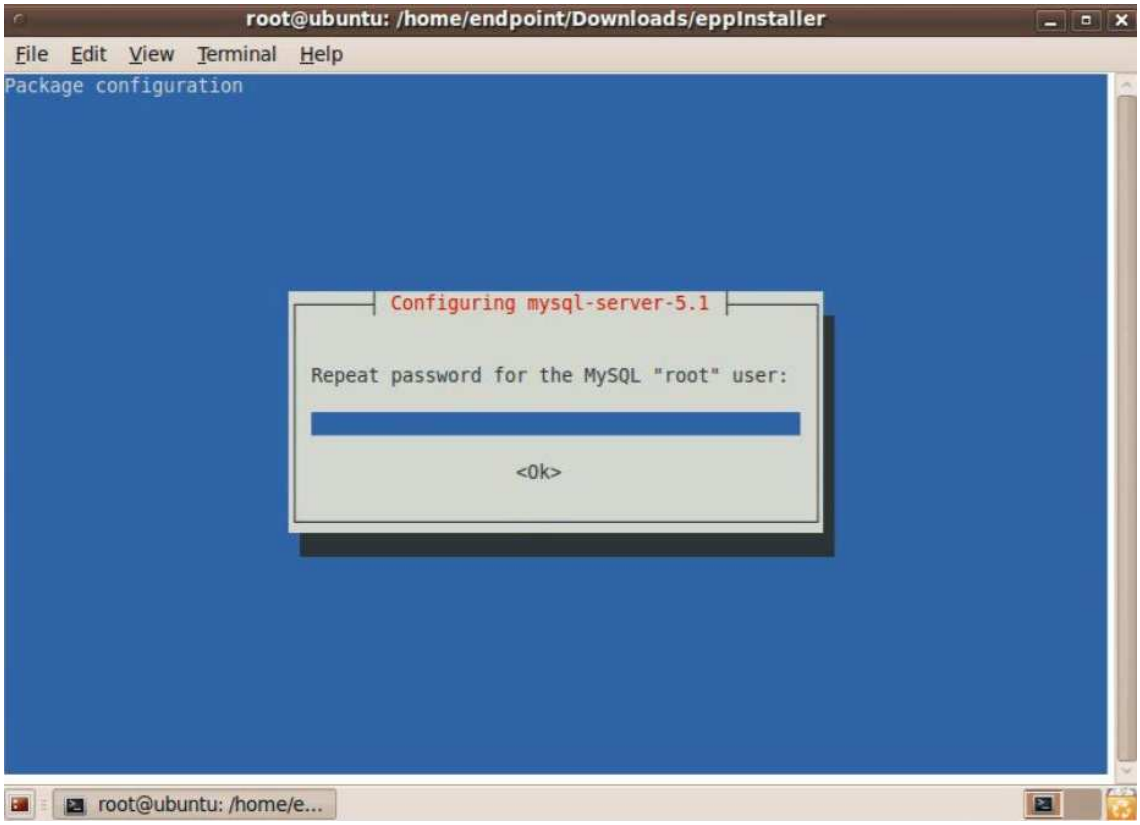
2.3.1. Installation of required software



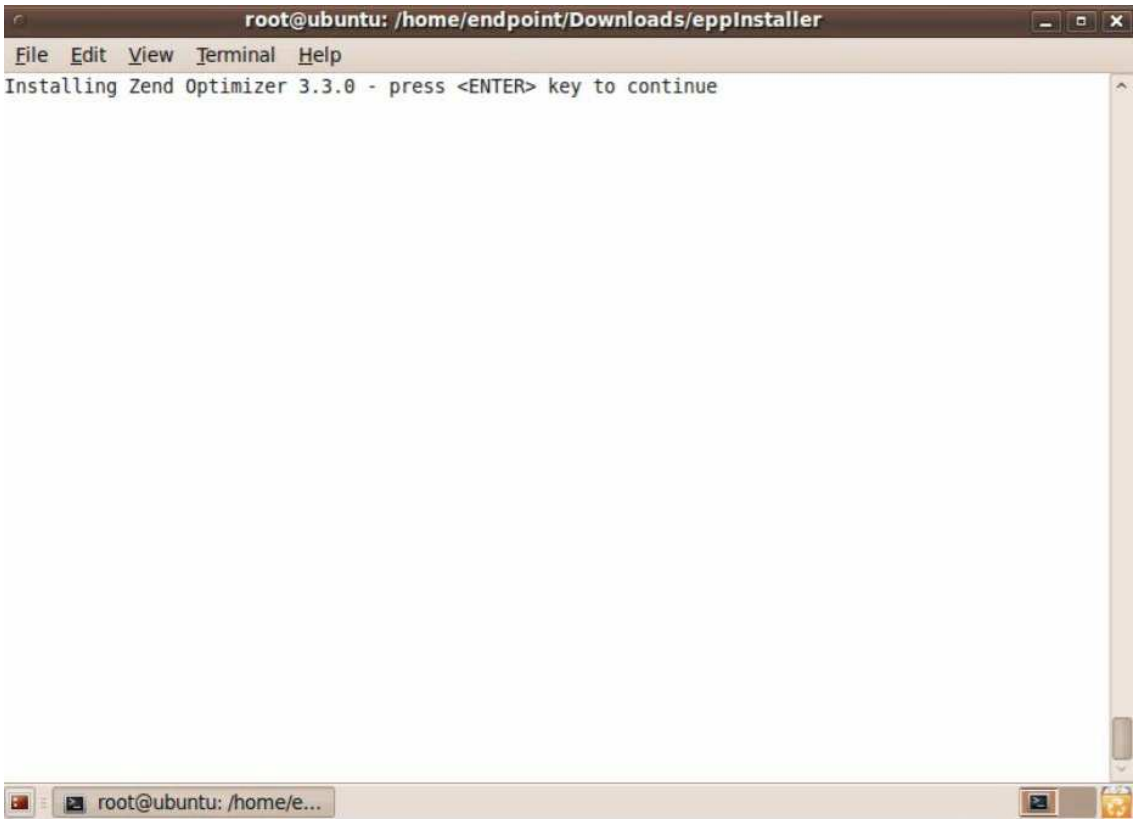


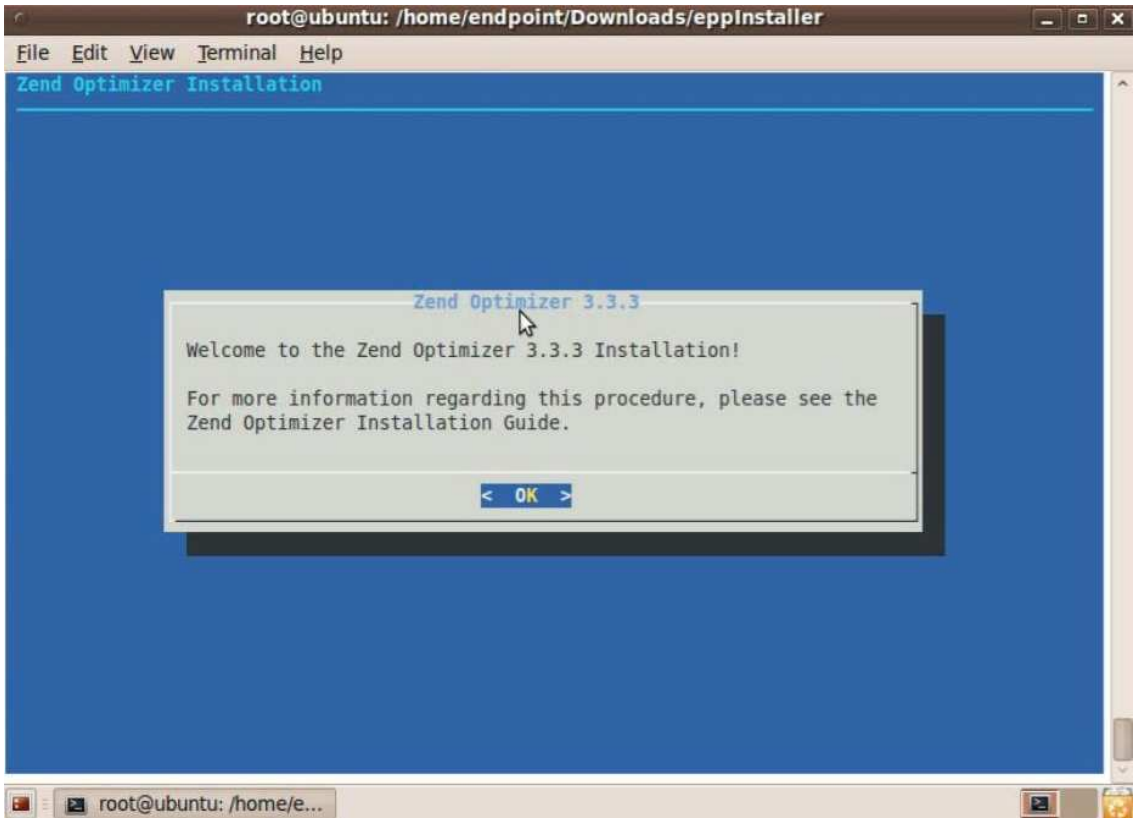

root@ubuntu: /home/endpoint/Downloads/eppInstaller
File Edit View Terminal Help
or ServerName
[OK]
Setting up php5-common (5.2.10.dfsg.1-2ubuntu6.3) ...
Setting up libapache2-mod-php5 (5.2.10.dfsg.1-2ubuntu6.3) ...
Creating config file /etc/php5/apache2/php.ini with new version
* Reloading web server config apache2
apache2: Could not reliably determine the server's fully qualified domain name, using 127.0.1.1 f
or ServerName
[OK]
Setting up php5 (5.2.10.dfsg.1-2ubuntu6.3) ...
Selecting previously deselected package php5-mysql.
(Reading database ... 117534 files and directories currently installed.)
Unpacking php5-mysql (from .../php5-mysql_5.2.10.dfsg.1-2ubuntu6.3_i386.deb) ...
Setting up php5-mysql (5.2.10.dfsg.1-2ubuntu6.3) ...
Selecting previously deselected package php5-xsl.
(Reading database ... 117541 files and directories currently installed.)
Unpacking php5-xsl (from .../php5-xsl_5.2.10.dfsg.1-2ubuntu6.3_i386.deb) ...
Setting up php5-xsl (5.2.10.dfsg.1-2ubuntu6.3) ...
Selecting previously deselected package php5-ldap.
(Reading database ... 117544 files and directories currently installed.)
Unpacking php5-ldap (from .../php5-ldap_5.2.10.dfsg.1-2ubuntu6.3_i386.deb) ...
Setting up php5-ldap (5.2.10.dfsg.1-2ubuntu6.3) ...
root@ubuntu: /home/e...

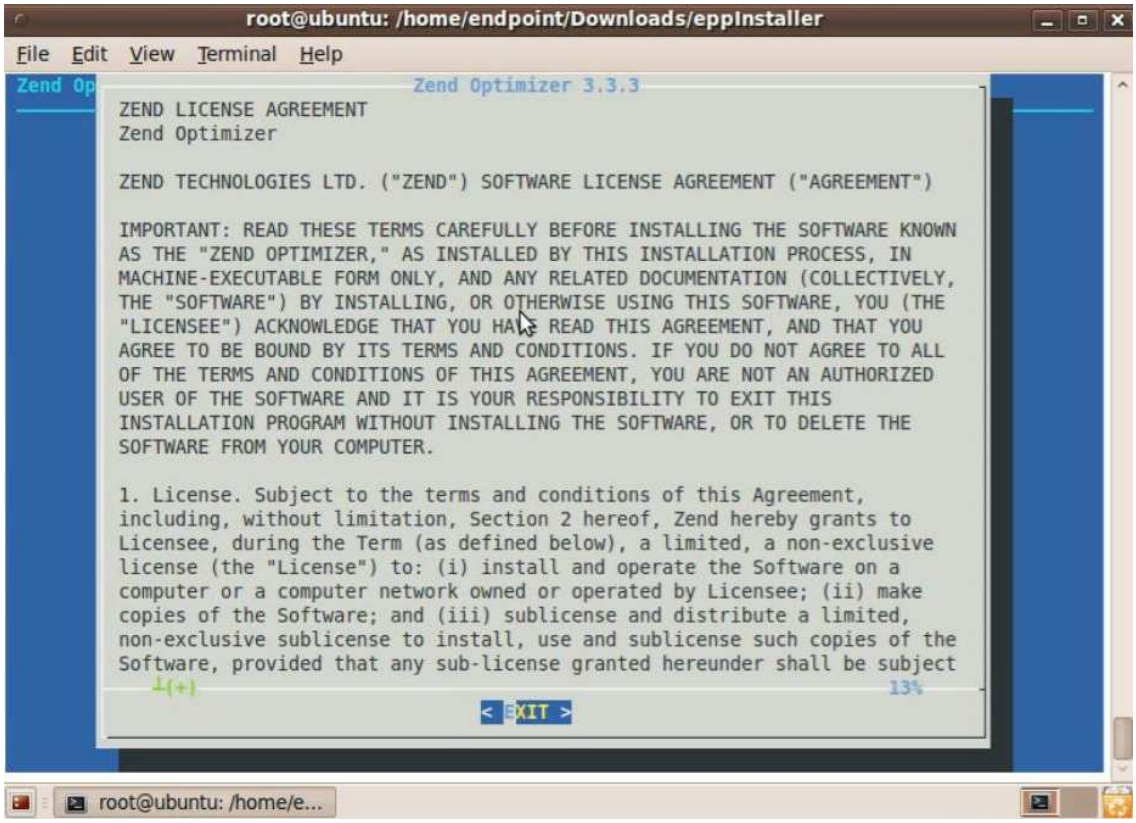

root@ubuntu: /home/endpoint/Downloads/eppInstaller
File Edit View Terminal Help
Package configuration
Configuring mysql-server-5.1
While not mandatory, it is highly recommended that you set a password for the MySQL
administrative "root" user.
If this field is left blank, the password will not be changed.
New password for the MySQL "root" user:
***
<Ok>
root@ubuntu: /home/e...

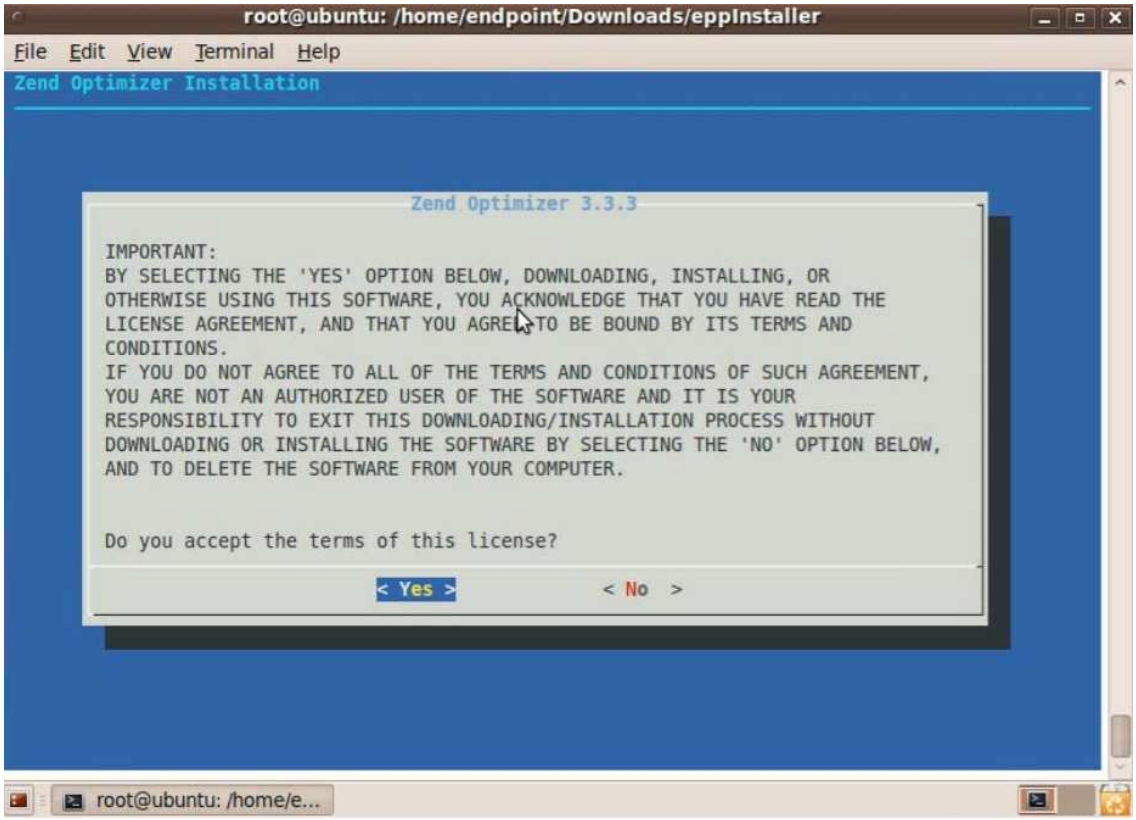


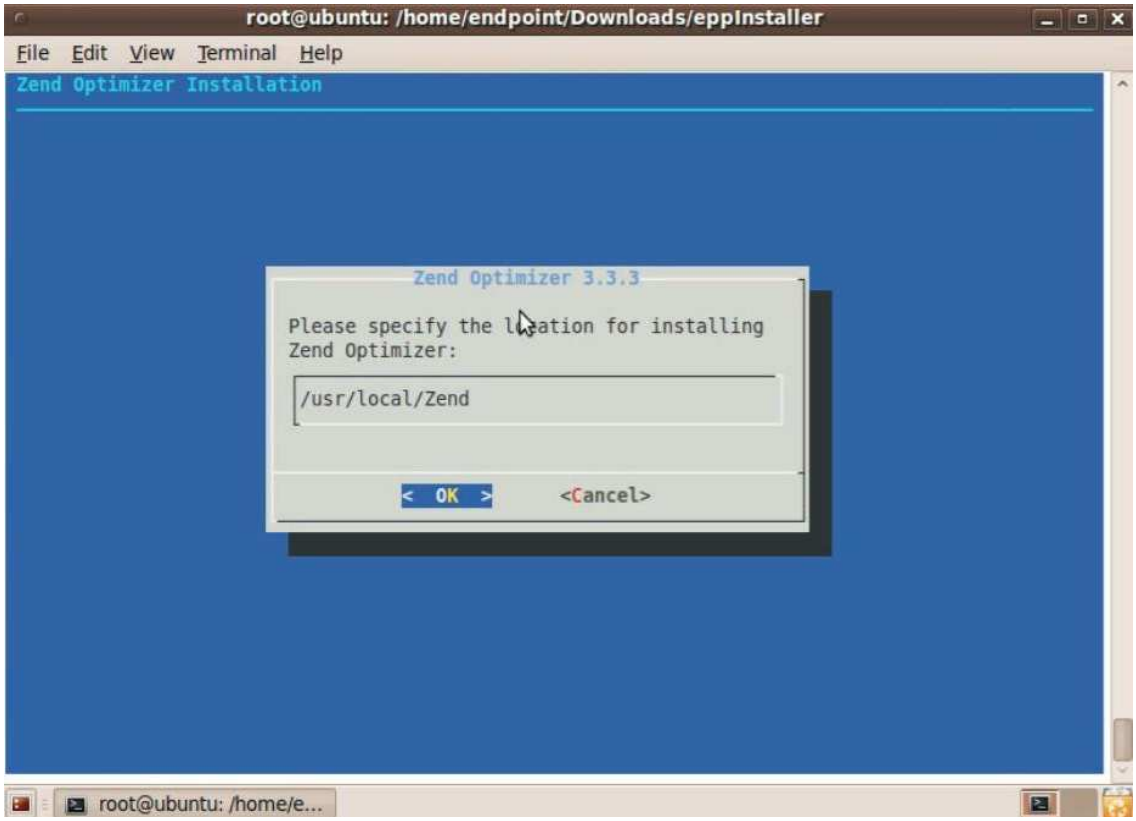
2.3.2. Installation of Zend Optimizer 3.3.0

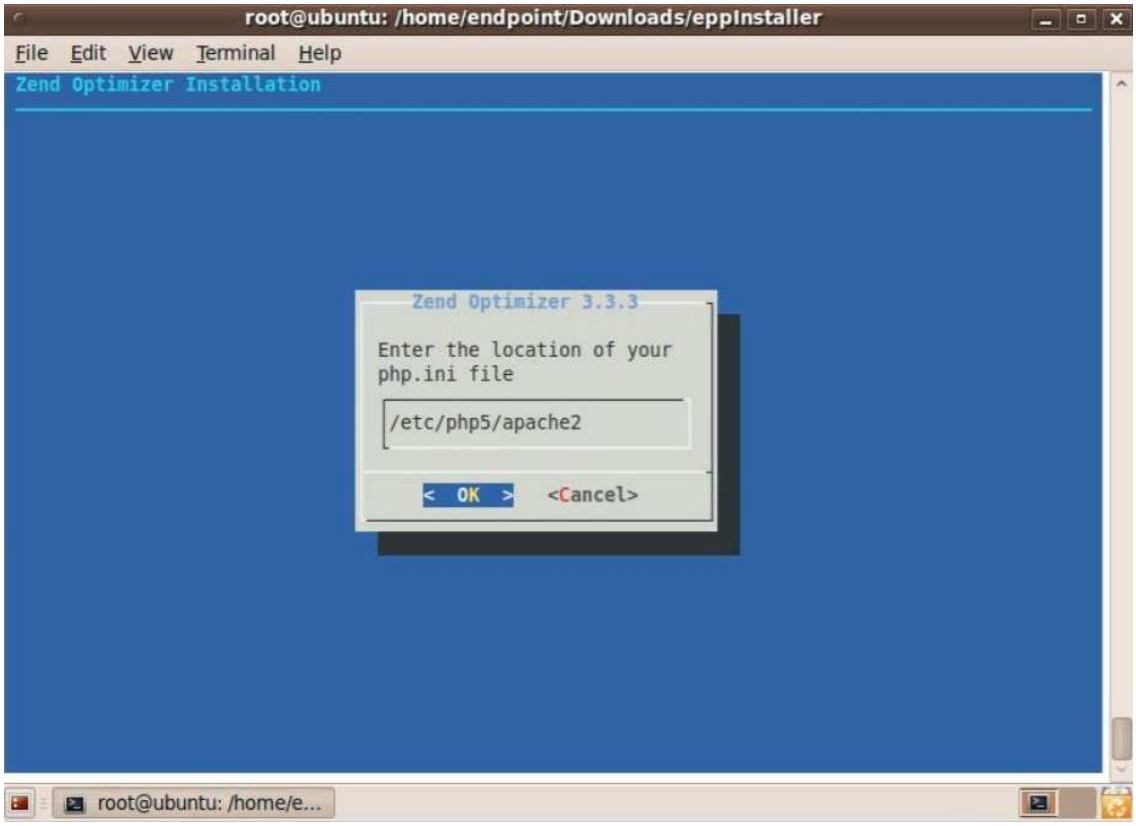


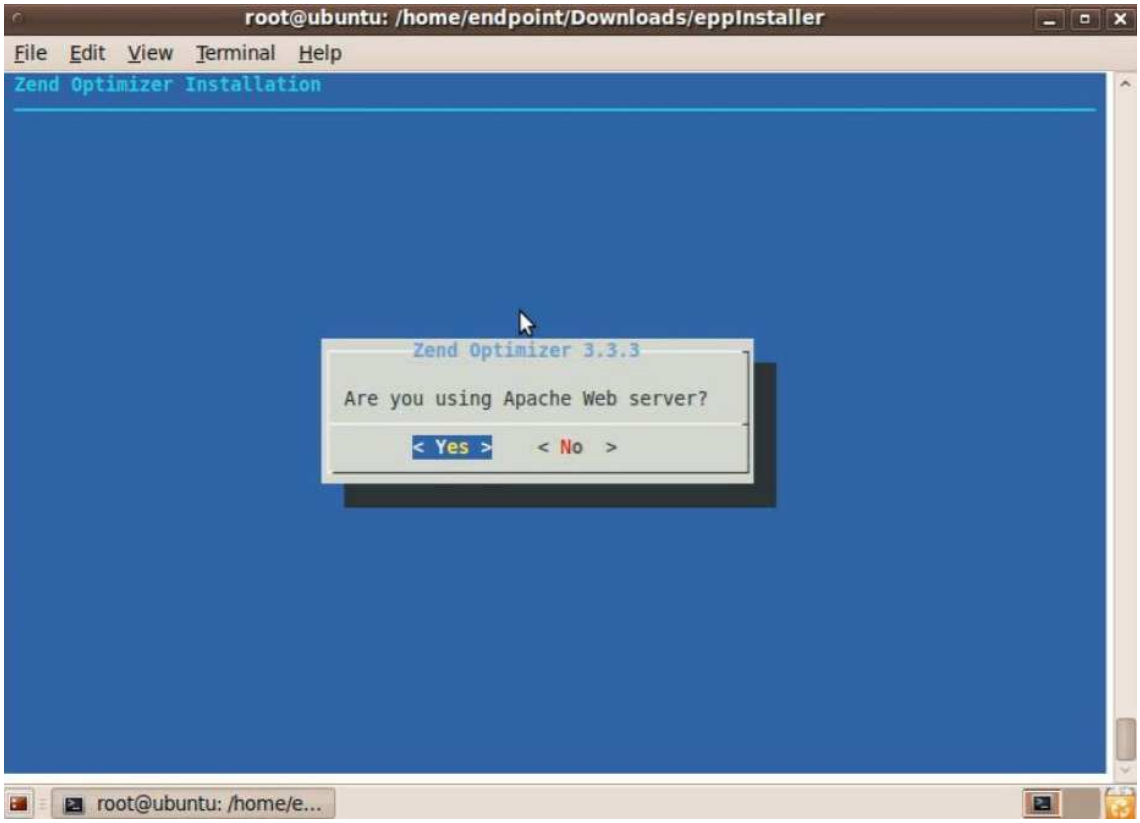

root@ubuntu: /home/endpoint/Downloads/eppInstaller
File Edit View Terminal Help
Zend Optimizer Installation
Zend Optimizer 3.3.3
Welcome to the Zend Optimizer 3.3.3 Installation!
For more information regarding this procedure, please see the
Zend Optimizer Installation Guide.
< OK >
root@ubuntu: /home/e...

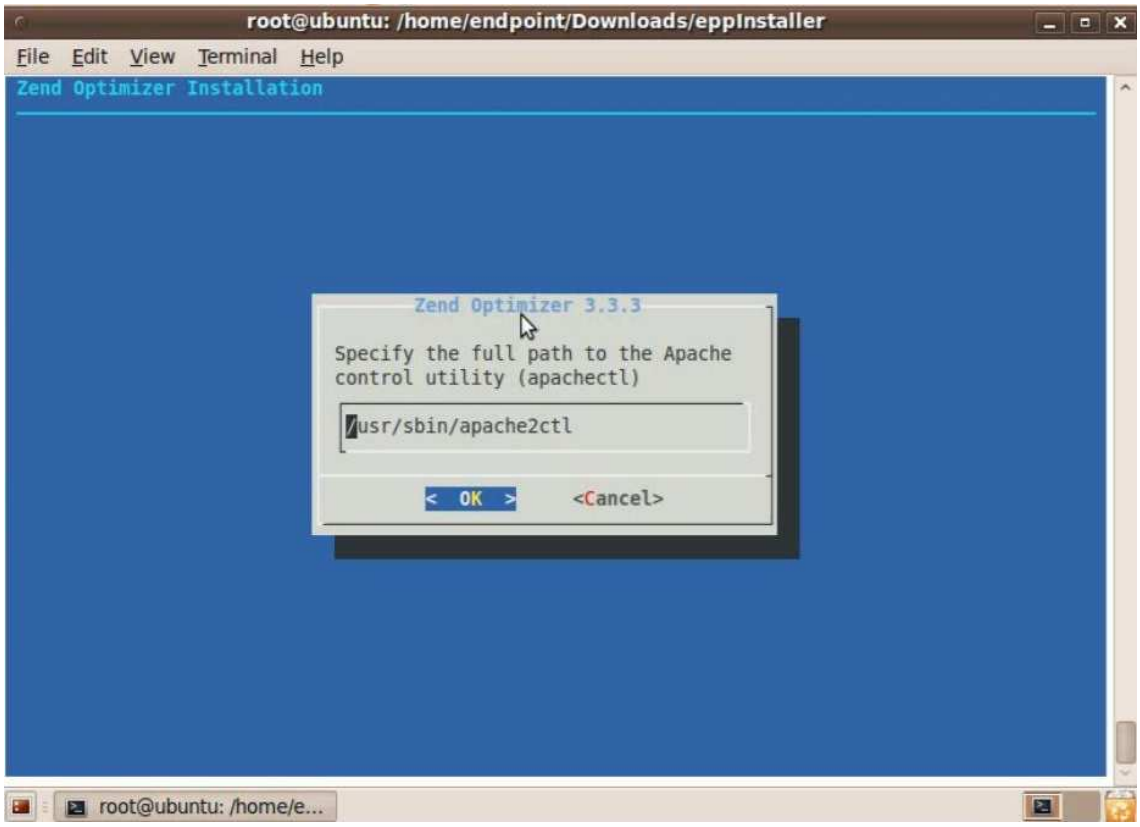

root@ubuntu: /home/endpoint/Downloads/eppInstaller
File Edit View Terminal Help
Zend Optimizer 3.3.3
ZEND LICENSE AGREEMENT
Zend Optimizer
ZEND TECHNOLOGIES LTD. ("ZEND") SOFTWARE LICENSE AGREEMENT ("AGREEMENT")
IMPORTANT: READ THESE TERMS CAREFULLY BEFORE INSTALLING THE SOFTWARE KNOWN AS THE "ZEND OPTIMIZER," AS INSTALLED BY THIS INSTALLATION PROCESS, IN MACHINE-EXECUTABLE FORM ONLY, AND ANY RELATED DOCUMENTATION (COLLECTIVELY, THE "SOFTWARE") BY INSTALLING, OR OTHERWISE USING THIS SOFTWARE, YOU (THE "LICENSEE") ACKNOWLEDGE THAT YOU HAVE READ THIS AGREEMENT, AND THAT YOU AGREE TO BE BOUND BY ITS TERMS AND CONDITIONS. IF YOU DO NOT AGREE TO ALL OF THE TERMS AND CONDITIONS OF THIS AGREEMENT, YOU ARE NOT AN AUTHORIZED USER OF THE SOFTWARE AND IT IS YOUR RESPONSIBILITY TO EXIT THIS INSTALLATION PROGRAM WITHOUT INSTALLING THE SOFTWARE, OR TO DELETE THE SOFTWARE FROM YOUR COMPUTER.
1. License. Subject to the terms and conditions of this Agreement, including, without limitation, Section 2 hereof, Zend hereby grants to Licensee, during the Term (as defined below), a limited, a non-exclusive license (the "License") to: (i) install and operate the Software on a computer or a computer network owned or operated by Licensee; (ii) make copies of the Software; and (iii) sublicense and distribute a limited, non-exclusive sublicense to install, use and sublicense such copies of the Software, provided that any sub-license granted hereunder shall be subject
13%
< EXIT >
root@ubuntu: /home/e...

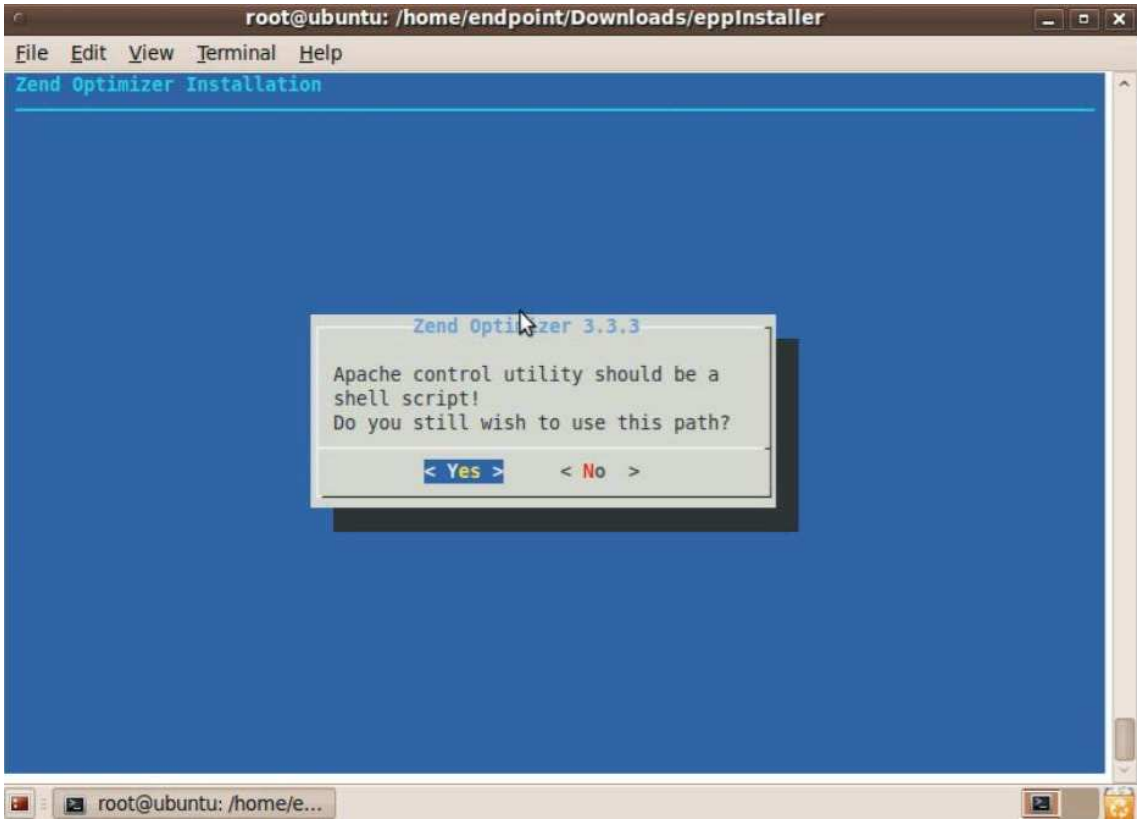

root@ubuntu: /home/endpoint/Downloads/eppInstaller
File Edit View Terminal Help
Zend Optimizer Installation
Zend Optimizer 3.3.3
IMPORTANT:
BY SELECTING THE 'YES' OPTION BELOW, DOWNLOADING, INSTALLING, OR
OTHERWISE USING THIS SOFTWARE, YOU ACKNOWLEDGE THAT YOU HAVE READ THE
LICENSE AGREEMENT, AND THAT YOU AGREE TO BE BOUND BY ITS TERMS AND
CONDITIONS.
IF YOU DO NOT AGREE TO ALL OF THE TERMS AND CONDITIONS OF SUCH AGREEMENT,
YOU ARE NOT AN AUTHORIZED USER OF THE SOFTWARE AND IT IS YOUR
RESPONSIBILITY TO EXIT THIS DOWNLOADING/INSTALLATION PROCESS WITHOUT
DOWNLOADING OR INSTALLING THE SOFTWARE BY SELECTING THE 'NO' OPTION BELOW,
AND TO DELETE THE SOFTWARE FROM YOUR COMPUTER.
Do you accept the terms of this license?
< Yes >
< No >
root@ubuntu: /home/e...

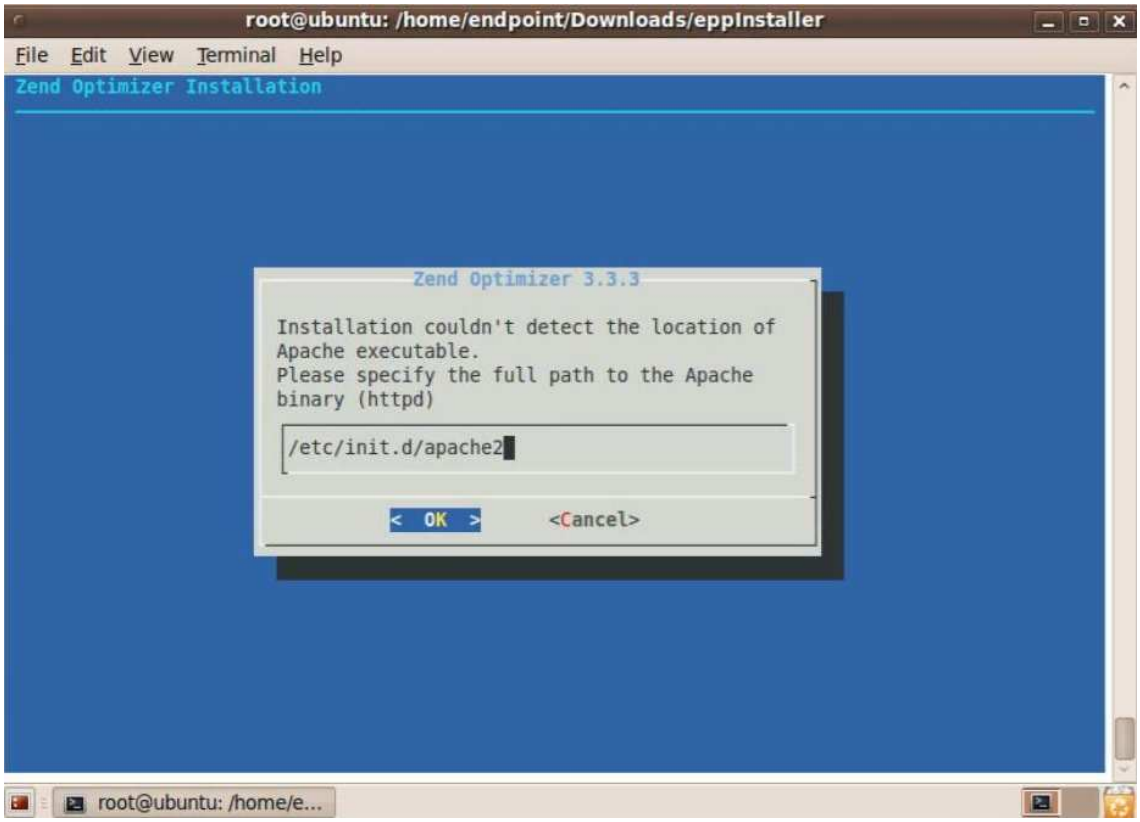

root@ubuntu: /home/endpoint/Downloads/eppInstaller
File Edit View Terminal Help
Zend Optimizer Installation
Zend Optimizer 3.3.3
Please specify the location for installing
Zend Optimizer:
/usr/local/Zend
< OK >
<Cancel>
root@ubuntu: /home/e...

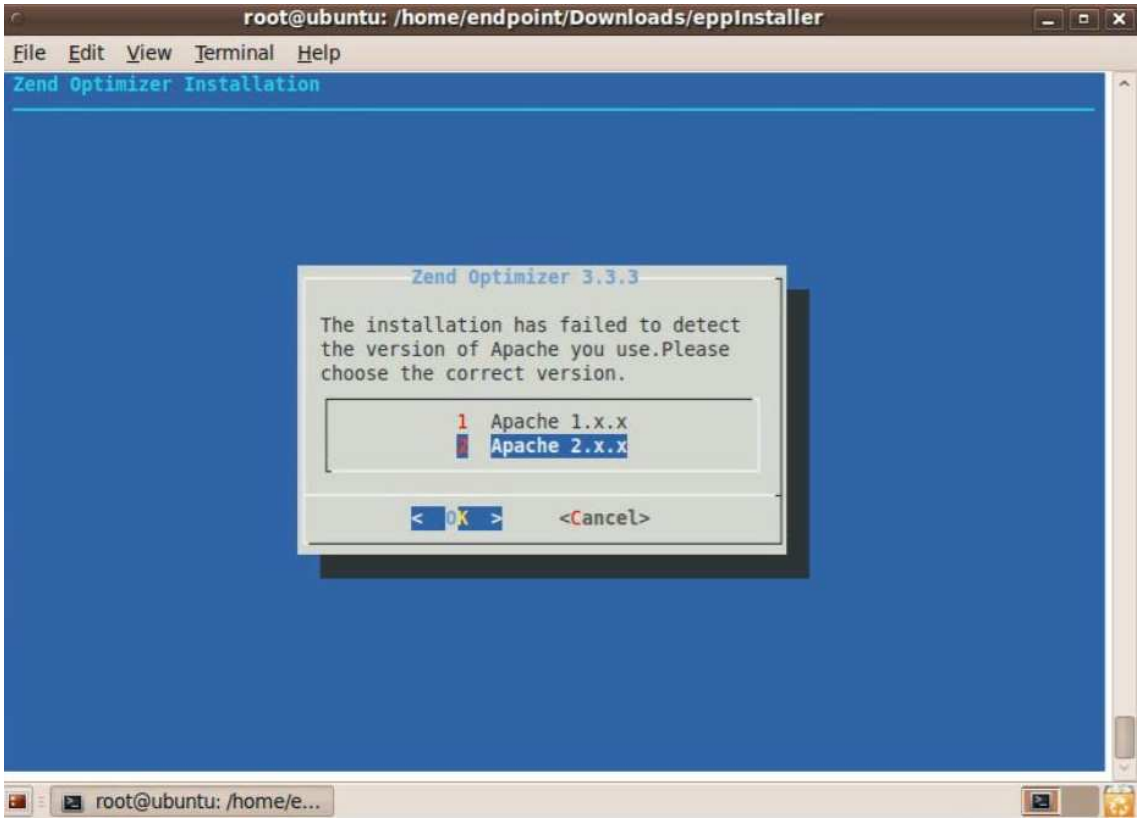

root@ubuntu: /home/endpoint/Downloads/eppInstaller
File Edit View Terminal Help
Zend Optimizer Installation
Zend Optimizer 3.3.3
Enter the location of your php.ini file
/etc/php5/apache2
< OK >
<Cancel>
root@ubuntu: /home/e...

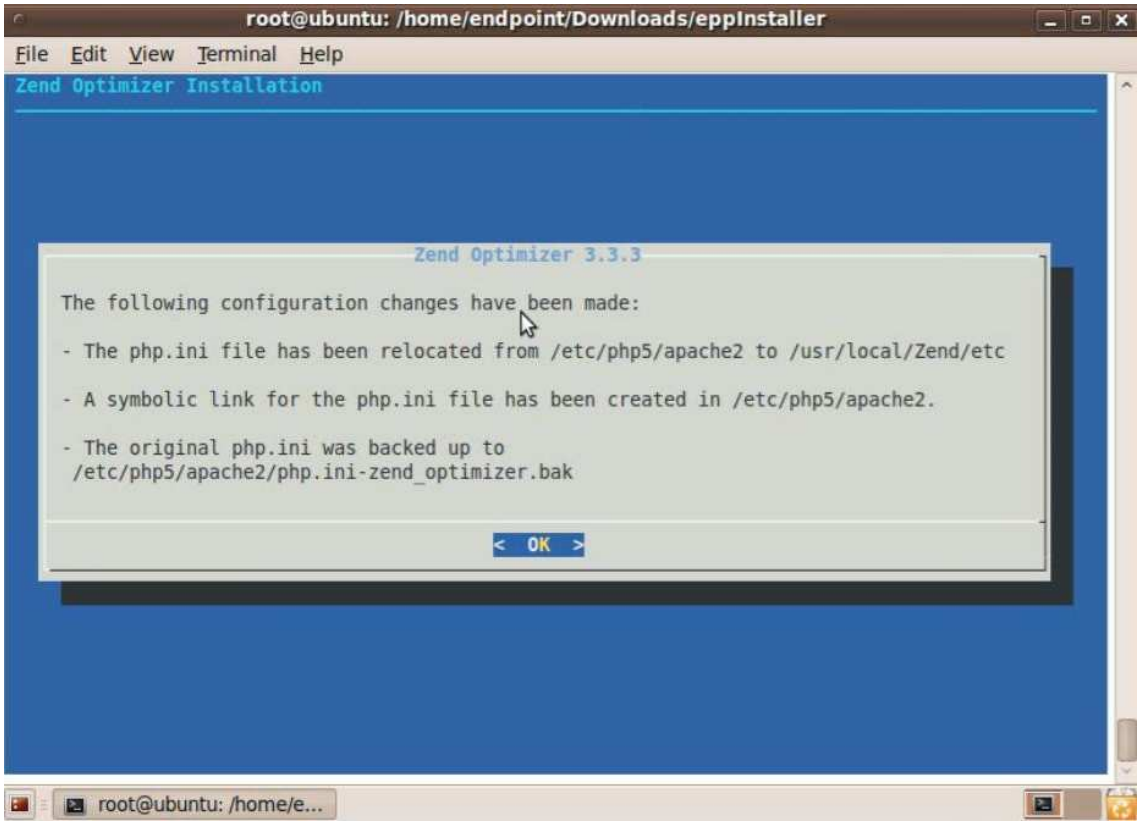

root@ubuntu: /home/endpoint/Downloads/eppInstaller
File Edit View Terminal Help
Zend Optimizer Installation
Zend Optimizer 3.3.3
Are you using Apache Web server?
< Yes >
< No >
root@ubuntu: /home/e...

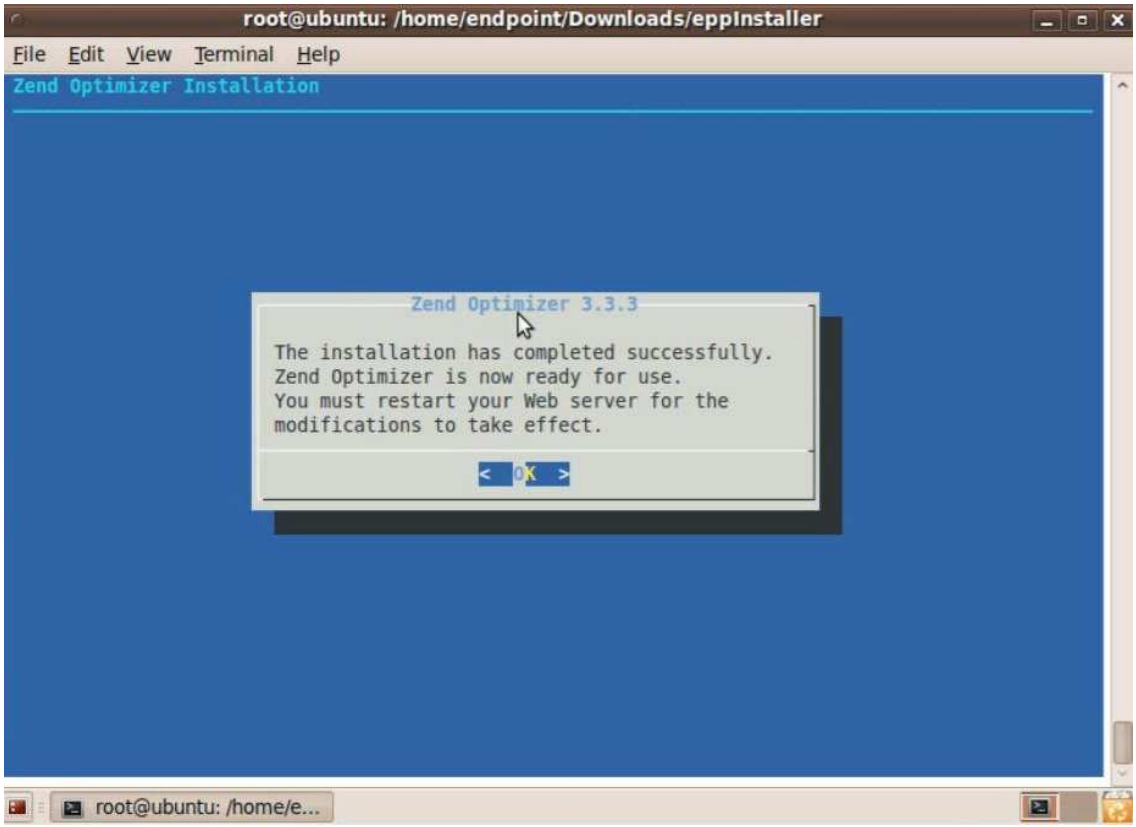

root@ubuntu: /home/endpoint/Downloads/eppInstaller
File Edit View Terminal Help
Zend Optimizer Installation
Zend Optimizer 3.3.3
Specify the full path to the Apache control utility (apachectl)
/usr/sbin/apache2ctl
< OK >
<Cancel>
root@ubuntu: /home/e...

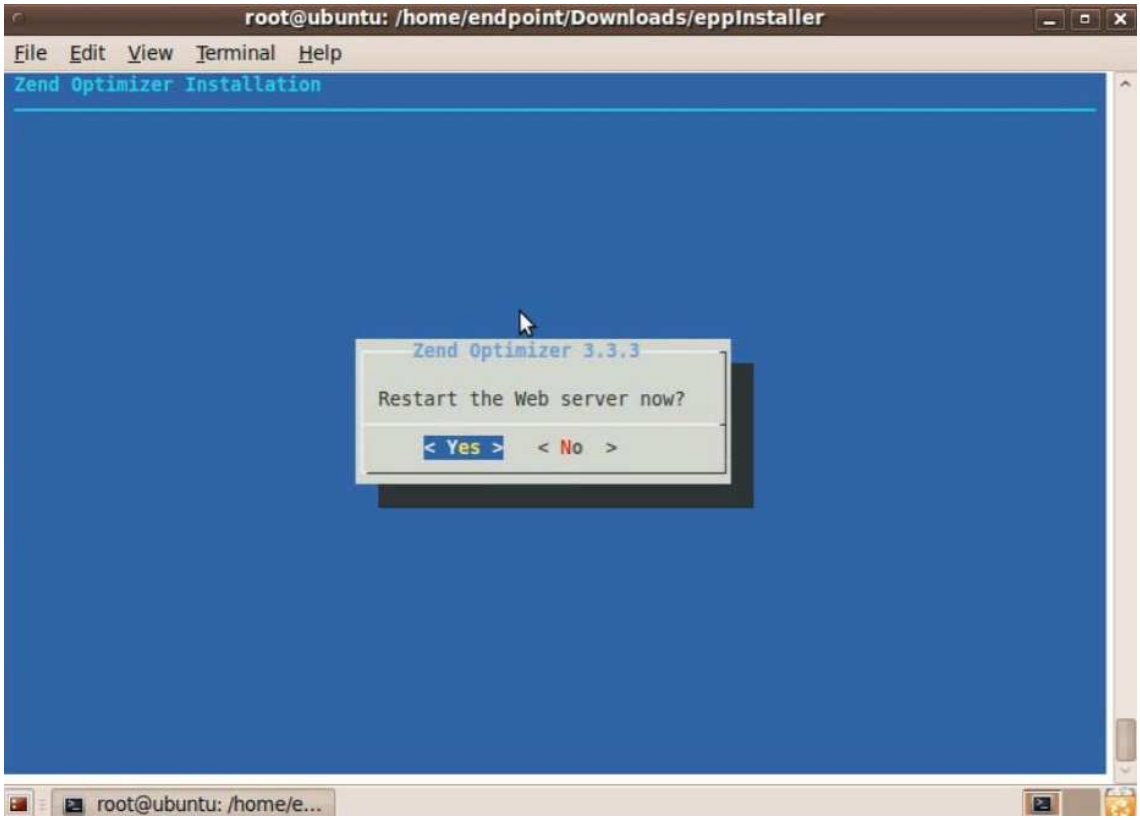

root@ubuntu: /home/endpoint/Downloads/eppInstaller
File Edit View Terminal Help
Zend Optimizer Installation
Apache control utility should be a shell script!
Do you still wish to use this path?
< Yes >
< No >
root@ubuntu: /home/e...

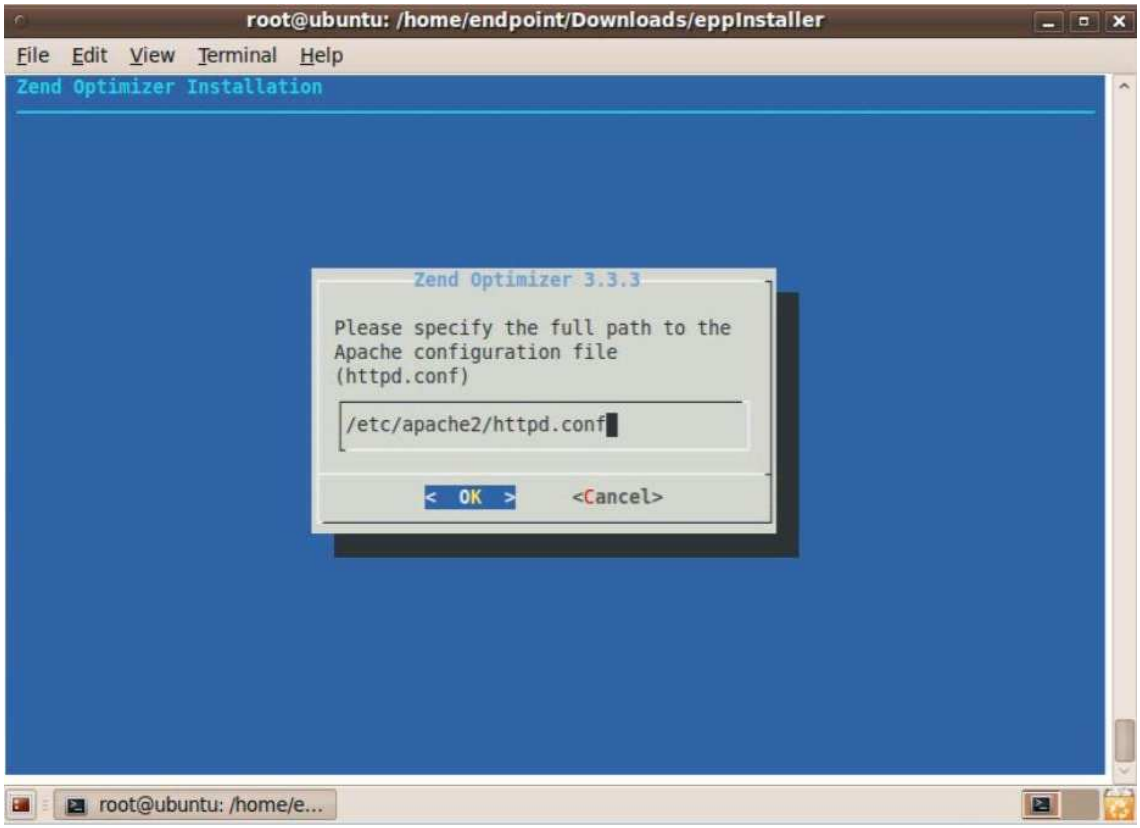

root@ubuntu: /home/endpoint/Downloads/epplnstaller
File Edit View Terminal Help
Zend Optimizer Installation
Zend Optimizer 3.3.3
Installation couldn't detect the location of
Apache executable.
Please specify the full path to the Apache
binary (httpd)
/etc/init.d/apache2
< OK >
<Cancel>
root@ubuntu: /home/e...

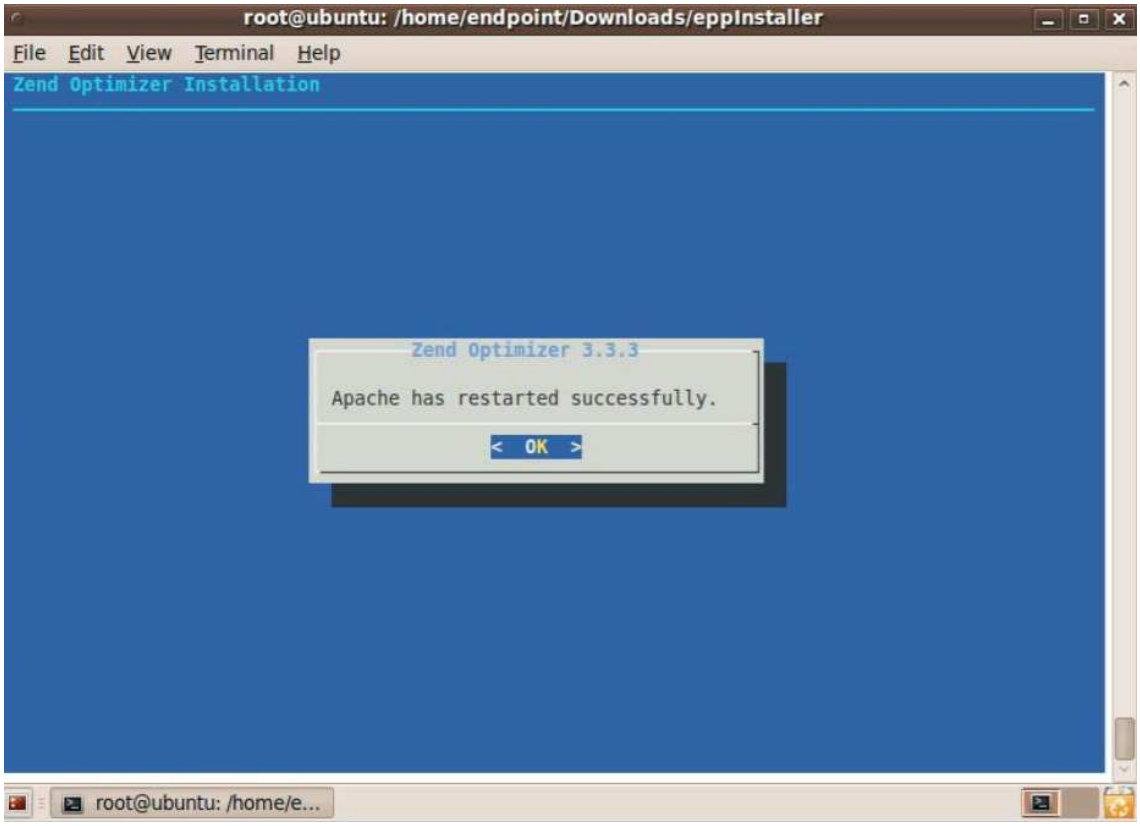

root@ubuntu: /home/endpoint/Downloads/epplnstaller
File Edit View Terminal Help
Zend Optimizer Installation
Zend Optimizer 3.3.3
The installation has failed to detect
the version of Apache you use.Please
choose the correct version.
1 Apache 1.x.x
2 Apache 2.x.x
< OK >
<Cancel>
root@ubuntu: /home/e...


root@ubuntu: /home/endpoint/Downloads/eppInstaller
File Edit View Terminal Help
Zend Optimizer Installation
Zend Optimizer 3.3.3
The following configuration changes have been made:
- The php.ini file has been relocated from /etc/php5/apache2 to /usr/local/Zend/etc
- A symbolic link for the php.ini file has been created in /etc/php5/apache2.
- The original php.ini was backed up to
/etc/php5/apache2/php.ini-zend_optimizer.bak
< OK >
root@ubuntu: /home/e...

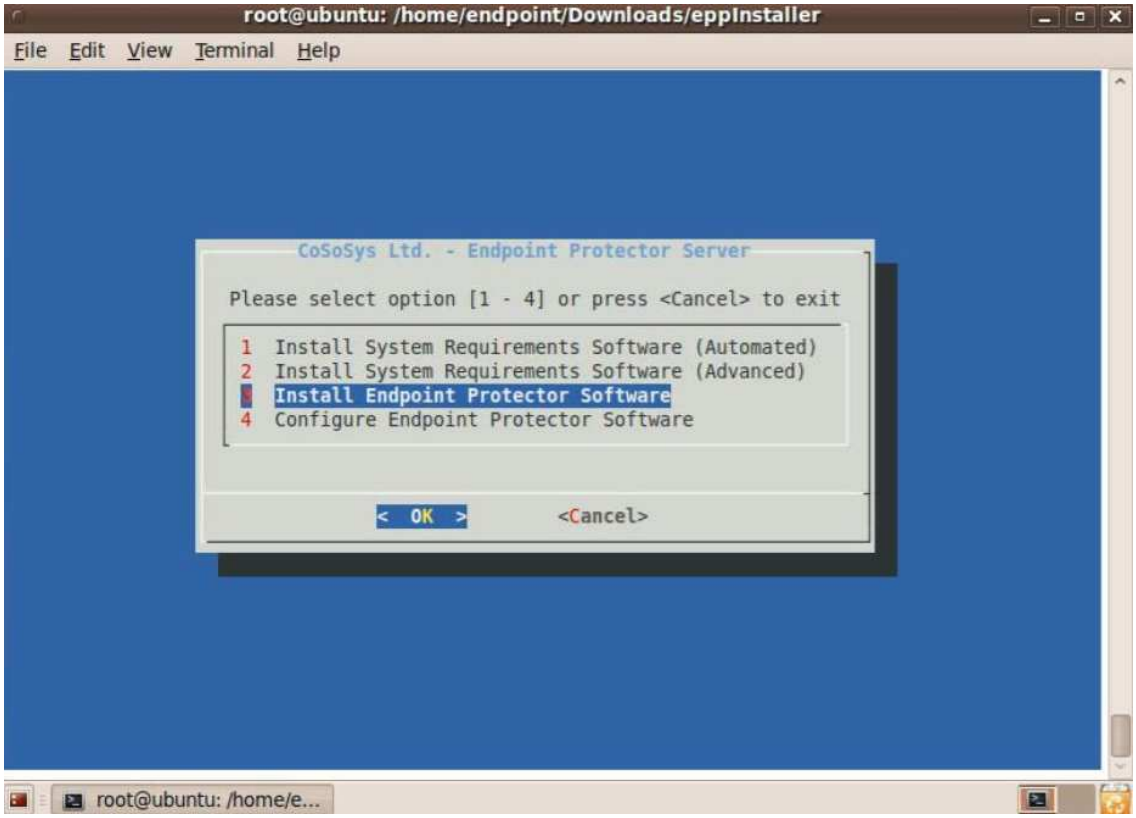

root@ubuntu: /home/endpoint/Downloads/eppInstaller
File Edit View Terminal Help
Zend Optimizer Installation
Zend Optimizer 3.3.3
The installation has completed successfully.
Zend Optimizer is now ready for use.
You must restart your Web server for the
modifications to take effect.
< OK >
root@ubuntu: /home/e...


root@ubuntu: /home/endpoint/Downloads/eppInstaller
File Edit View Terminal Help
Zend Optimizer Installation
Zend Optimizer 3.3.3
Restart the Web server now?
< Yes >
< No >
root@ubuntu: /home/e...

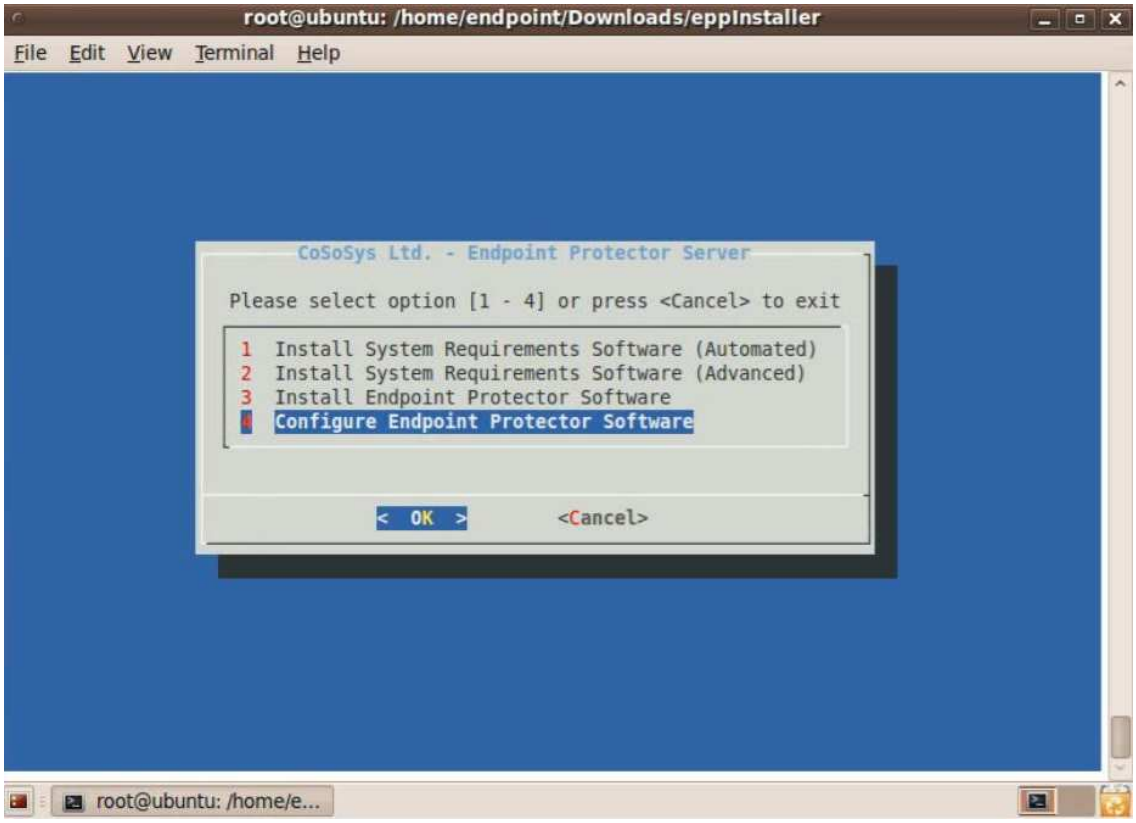

root@ubuntu: /home/endpoint/Downloads/eppInstaller
File Edit View Terminal Help
Zend Optimizer Installation
Zend Optimizer 3.3.3
Please specify the full path to the
Apache configuration file
(httpd.conf)
/etc/apache2/httpd.conf
< OK >
<Cancel>
root@ubuntu: /home/e...

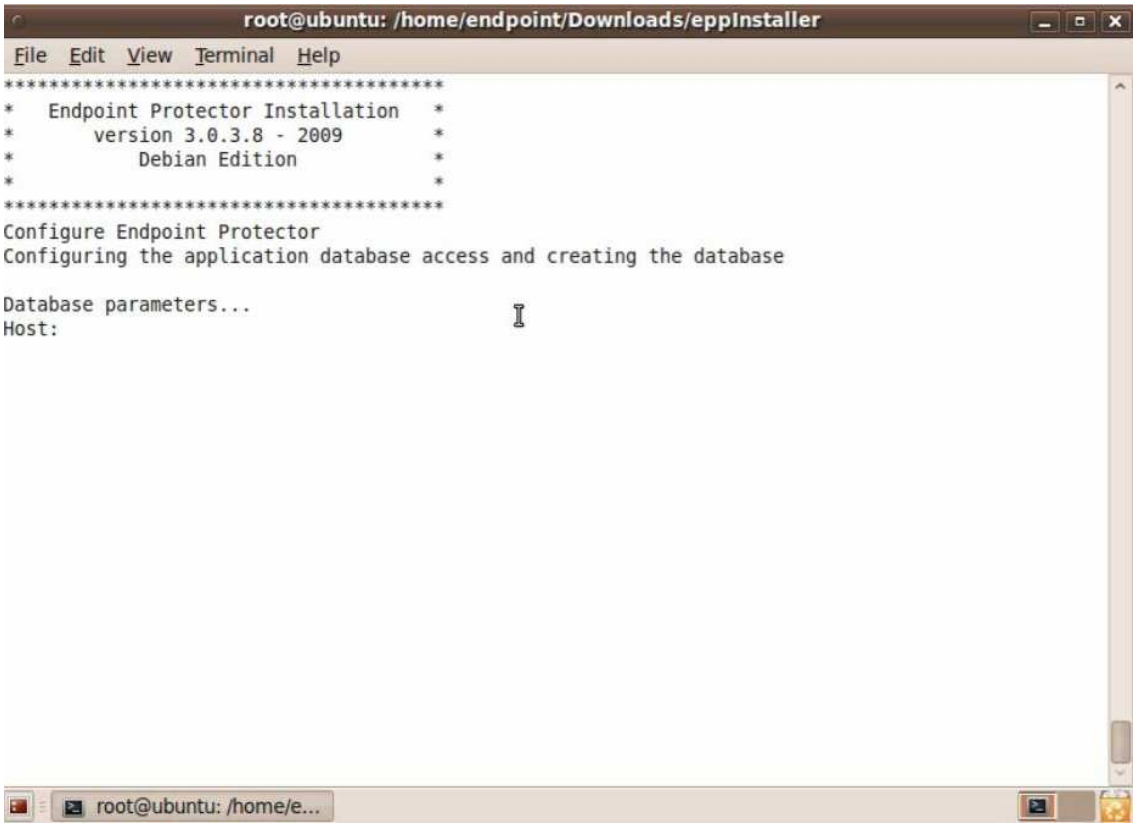


2.3.3. Installation of Endpoint Protector files



2.3.4. Configuration of the Endpoint Protector system





When configuring Endpoint Protector (paragraph 2.4.2.4), you will be asked to enter certain information. In order to configure Endpoint Protector correctly, please see below what information is required:

- Host: localhost
- User : user from SQL database
- Password: password for the username from SQL database
- Port: leave it default
- Click "Y" when asked "Do you want to create a new database and load...."
- Enter any password to "Enter PEM pass phrase"
- Your will now be asked to enter your credentials: country name, location etc.
- Enter the password you have set above when you are asked the following "Enter pass phrase for..."
- Click "Y" when asked "Sign the certificate?"
- Click "Y" when asked "1 out of 1 certificate request certified, commit?"
- Enter once again the password set above when you are prompt for "Please input..."

After configuring Endpoint Protector, please choose “Cancel” from the Installation Menu in order to Exit the Installation.

After finishing the installation, please follow also these two steps:

- Add the following line to the file /etc/hosts file

  127.0.0.1 endpointprotector

- Access https://endpointprotector/index.php from the web browser.

2.4. Linux Server Installation – Red Hat (Fedora)

In order to install Endpoint Protector 2009 under Linux, you will need an Internet connection. The reason for this is that the installer downloads all needed components (MySQL, PHP, OpenSSL, etc.) directly from the Internet and also configures them automatically. This saves space and time. If you have already installed some components, such as PHP, then the installer will simply update your existing settings and register the required extensions needed for Endpoint Protector.

The Red Hat installation of Endpoint Protector has the following requirements:

- "Yum" utility installed and correctly configured.
- Default port 443 open and not used by another application.
- Internal firewall either disabled, or configured to allow traffic through 443.

The installation for Red Hat (Fedora) can be done automatically using the installation scripts provided or it can be done manually.

The automated installation is recommended on systems recently installed or where the update of the following software will not inflict with existing applications installed:

- Apache Web Server
- PHP
- PHP extensions
- OpenSSL
- MySQL Server

The manual installation will require the user installing the Endpoint Protector software to install and update if required the software pre -requisitions.

2.4.1. Endpoint Protector Automated Installation

2.4.1.1. Preparations

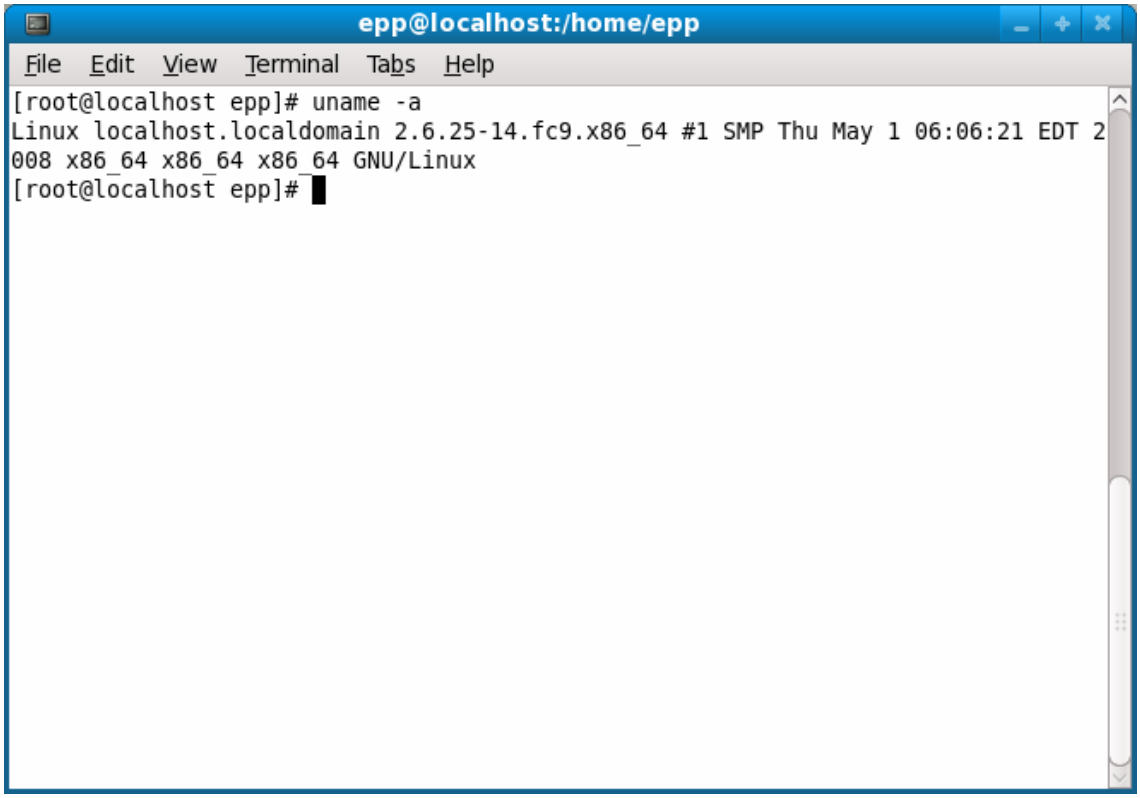
Unzip the received archive from your Endpoint Protector provider to a temporary folder. After that, change the current folder to the folder where you have extracted the files.

All the following commands and installation of Endpoint Protector Server need to be done using root privileges.

For that please change user to root using: *su root*

Verify what version of Fedora you are running (32bit or 64bit); the installation package contains both versions.

Command: uname –a

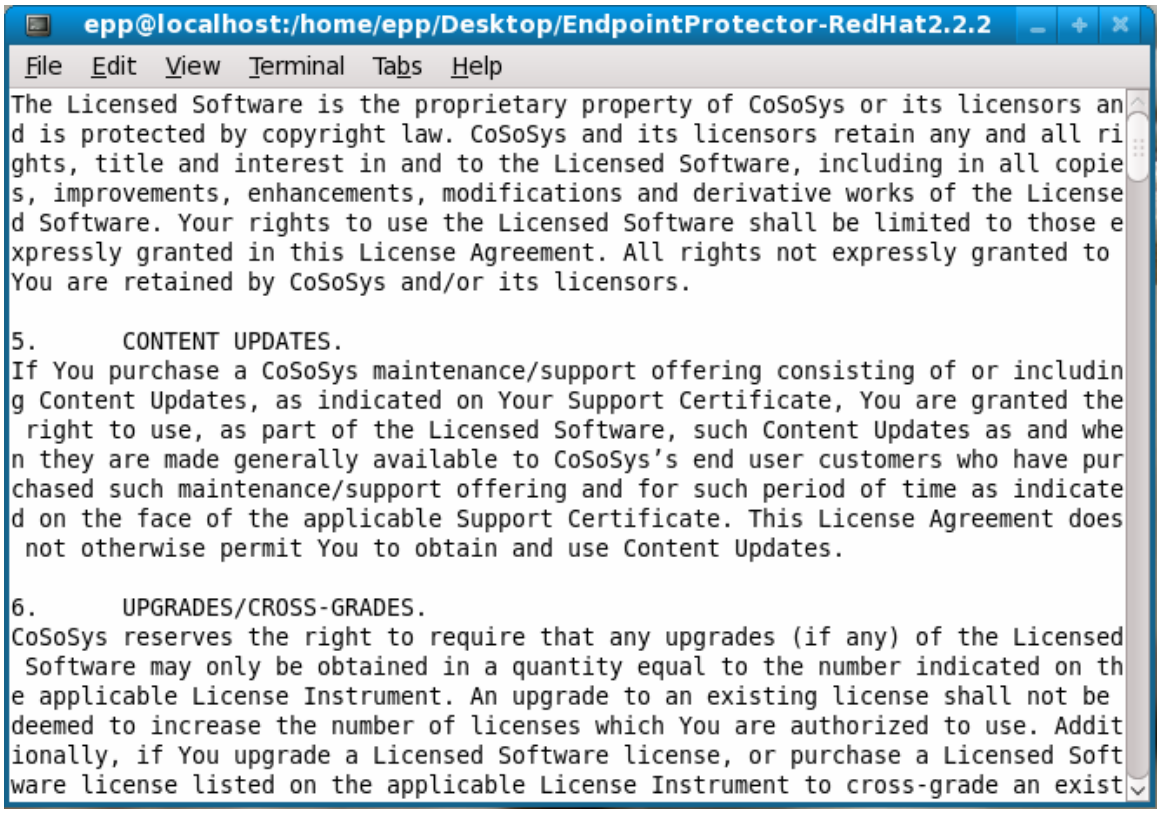


2.4.1.2. Installation

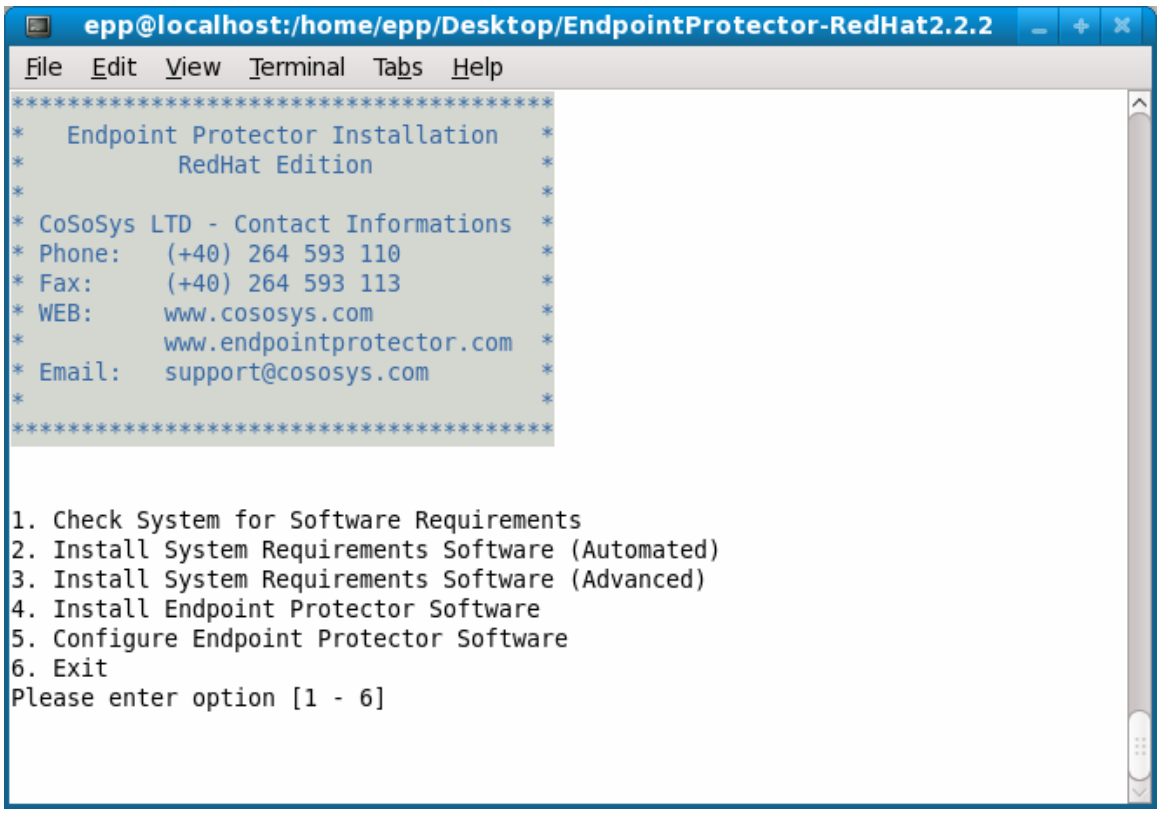
Depending on your Red Hat version please run the installation script.

Command: ./install-x32.sh or ./install-x64.sh

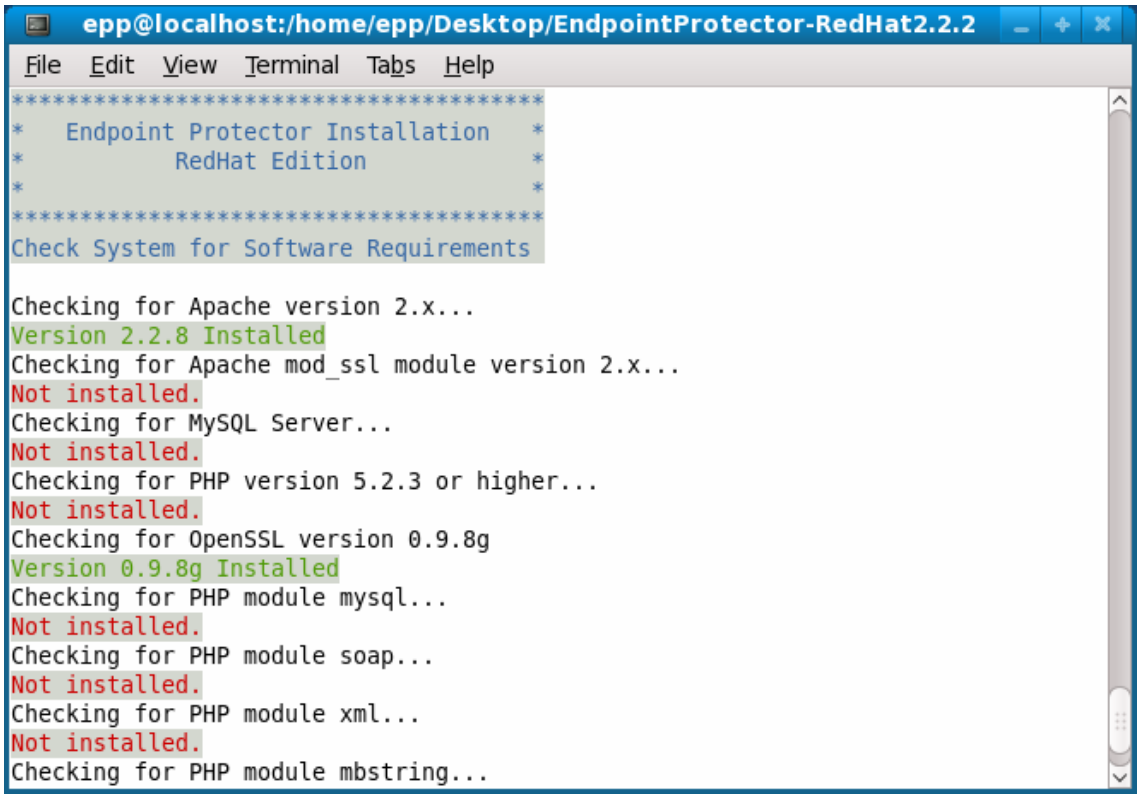
Please note that you must accept the EULA in order to continue with the installation.



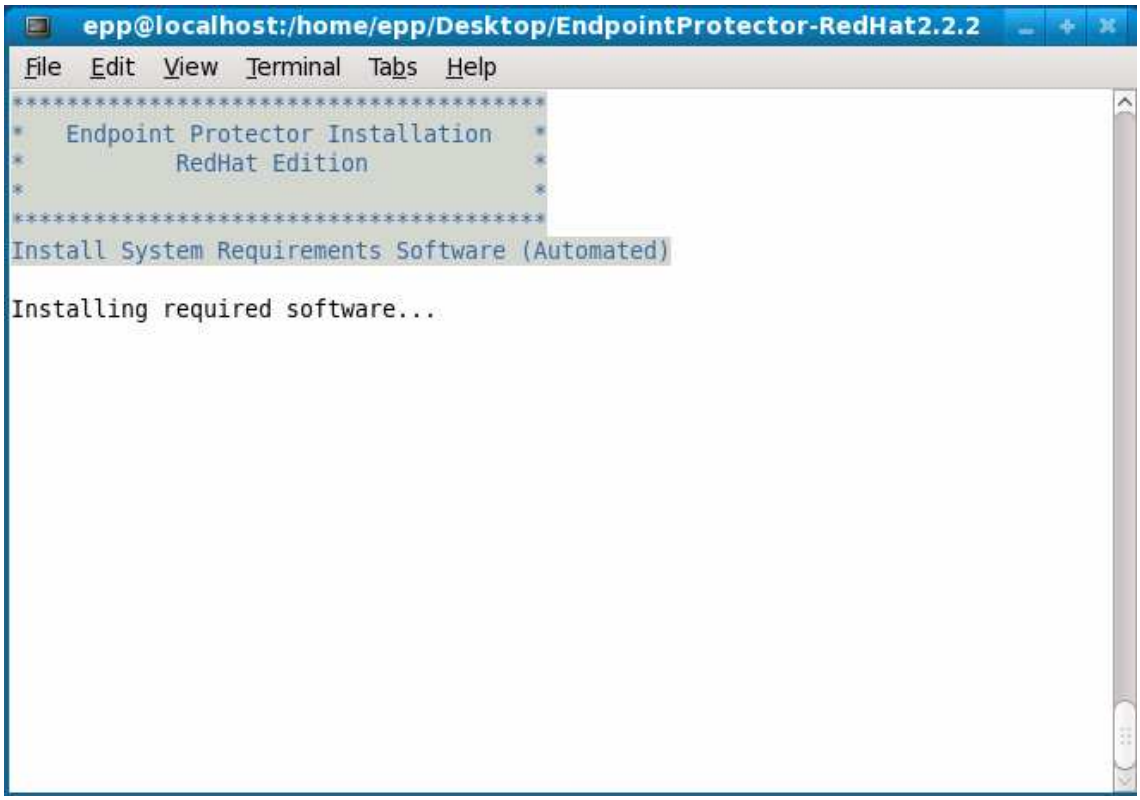
The steps of installation of Endpoint Protector Server:

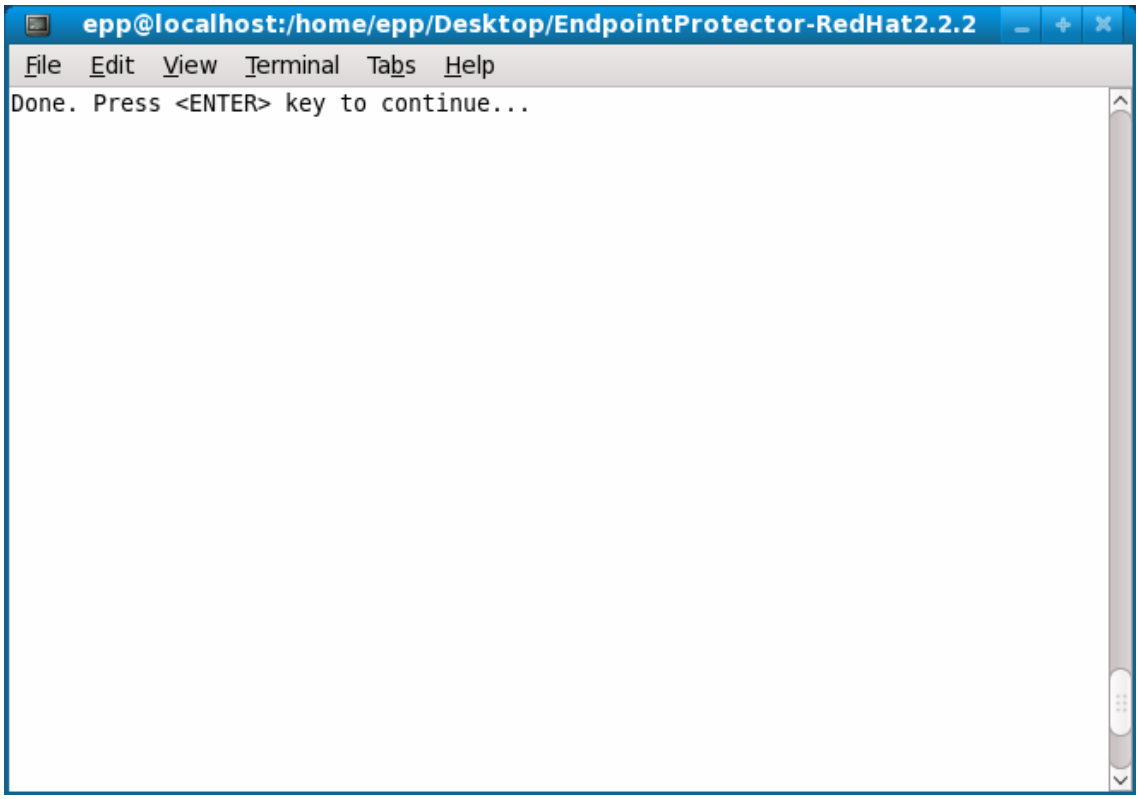


1. Testing your system configuration for required software

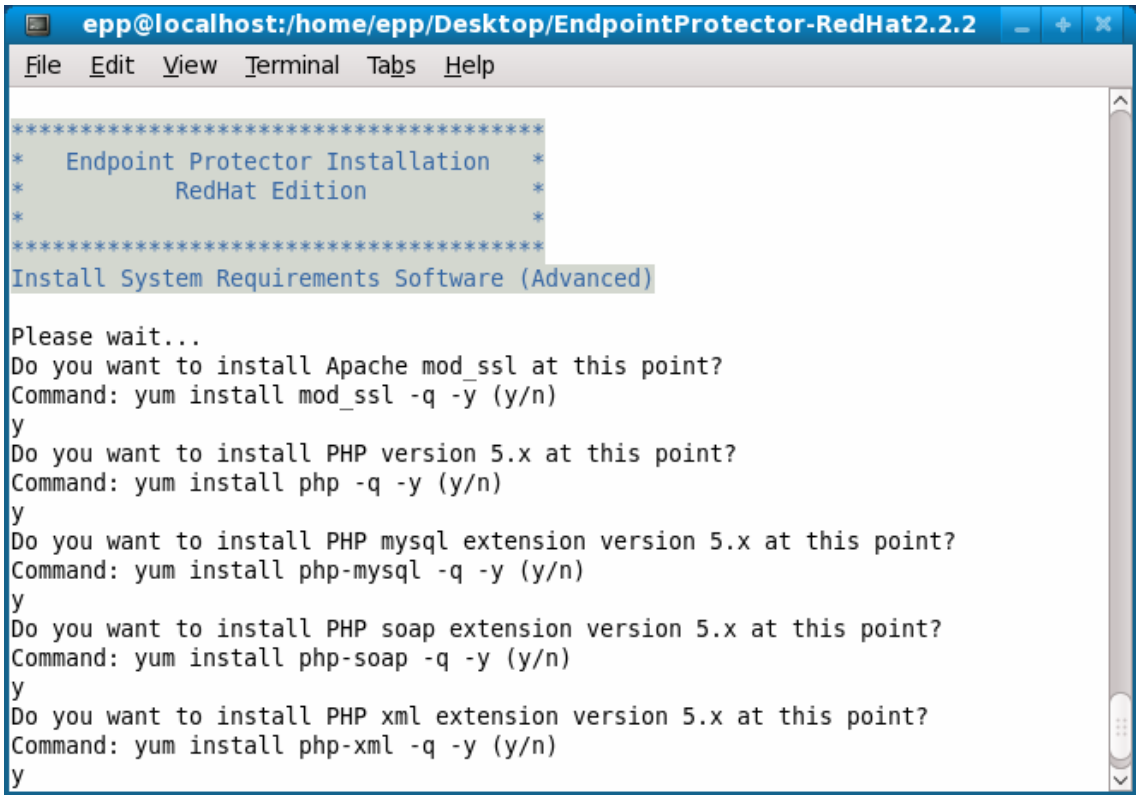


2. Installing the software required - Automated (recommended on systems where the installation/update of the following software will not inflict existing application: Apache Web Server 2.x, PHP 5.2.3 (php-mysql, php-soap, php-xml, php-mbstring, php-xmlrpc), OpenSSL 0.9.8.g, MySQL Server 5.x.



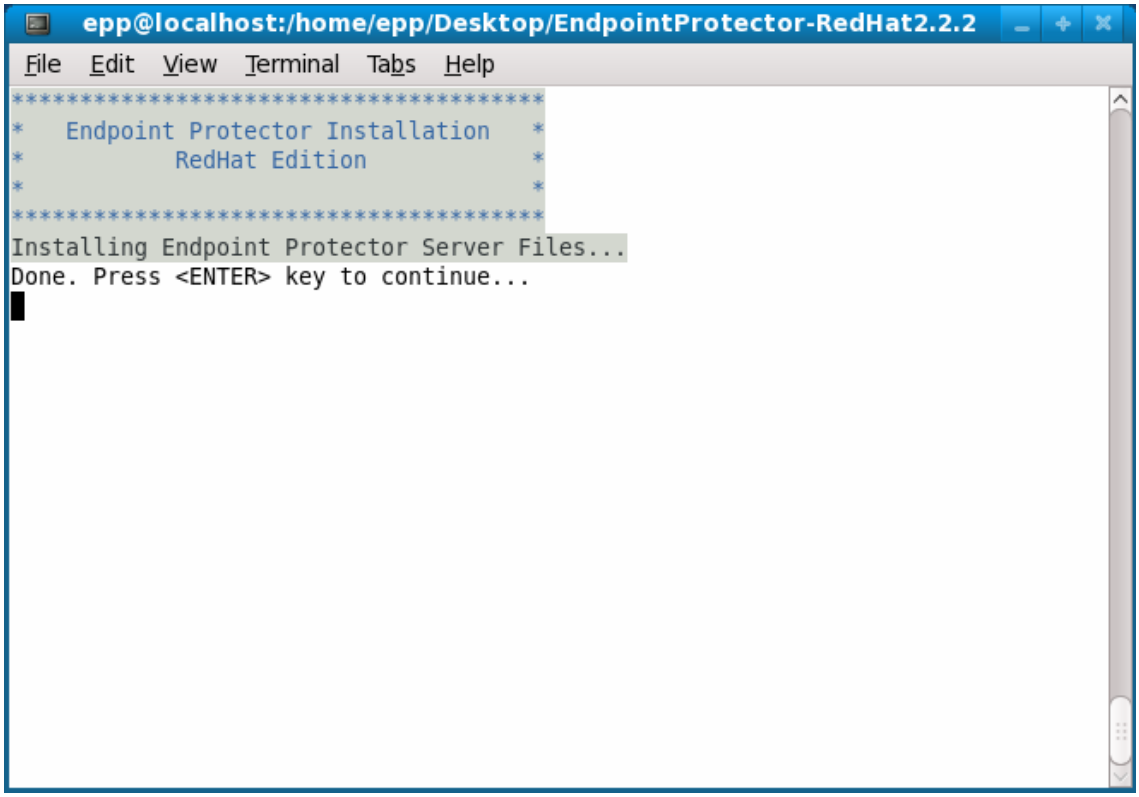


3. Installing the software required - Advanced (recommended for users with advanced knowledge about Linux Administration)

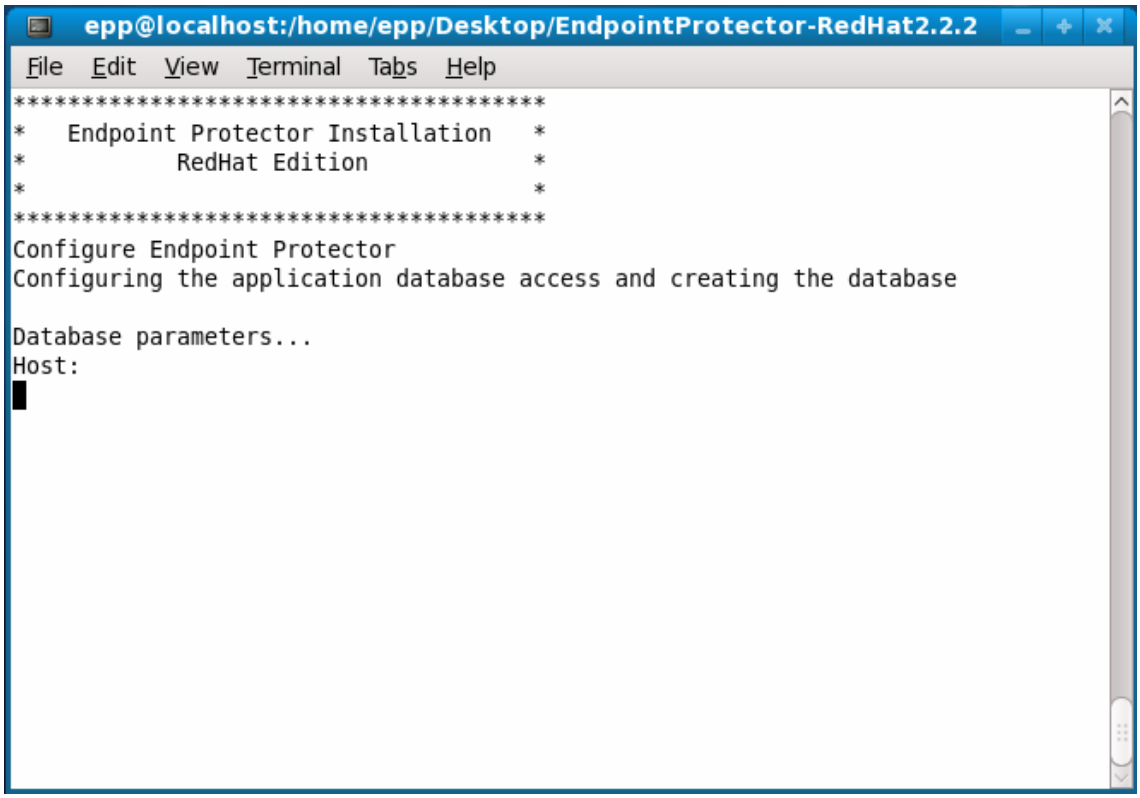


4. Installation of Endpoint Protector Server files

The Endpoint Protector Server files will be installed in */var/www/EPPServer/*



5. Configuration of Endpoint Protector files



e.g:

Host: localhost

User: root

Password: administrator

***Port** (3306 default) : 3306*

After this point, you will be asked to introduce company-related data such as company name, address, country, e-mail contact etc.
After you have verified this information you entered, sing the certificate created by Endpoint Protector.

Note!

The Security Enhanced Linux (SELinux) feature will prevent the loading of Zend Optimizer components. Please follow these commands to remedy the situation:

chcon –t texrel_shlib_t /usr/local/Zend/lib/Optimizer-3.3.3/php-5.2.x/ZendOptimizer.so

chcon –t texrel_shlib_t /usr/local/Zend/lib/ZendExtensionManager.so

execstack –c /usr/local/Zend/lib/Optimizer-3.3.3/php-5.2.x/ZendOptimizer.so

execstack –c /usr/local/Zend/lib/ZendExtensionManager.so

After executing the commands, please restart the *httpd* service using the following command:

/etc/init.d/httpd restart

Note!

The MySQL and httpd components are not installed as a service and therefore they will not start automatically after reboot. Please follow these commands to remedy the situation:

/sbin/chkconfig mysql on

/sbin/chkconfig httpd on

These commands will force the two components to start automatically with the system.

2.4.2. Endpoint Protector Manual Installation

2.4.2.1. Preparations

Unzip the received archive from your Endpoint Protector provider to a temporary folder. After that, change the current folder to the folder where you have extracted the files.

All the following commands and installation of Endpoint Protector Server need to be done using root privileges.

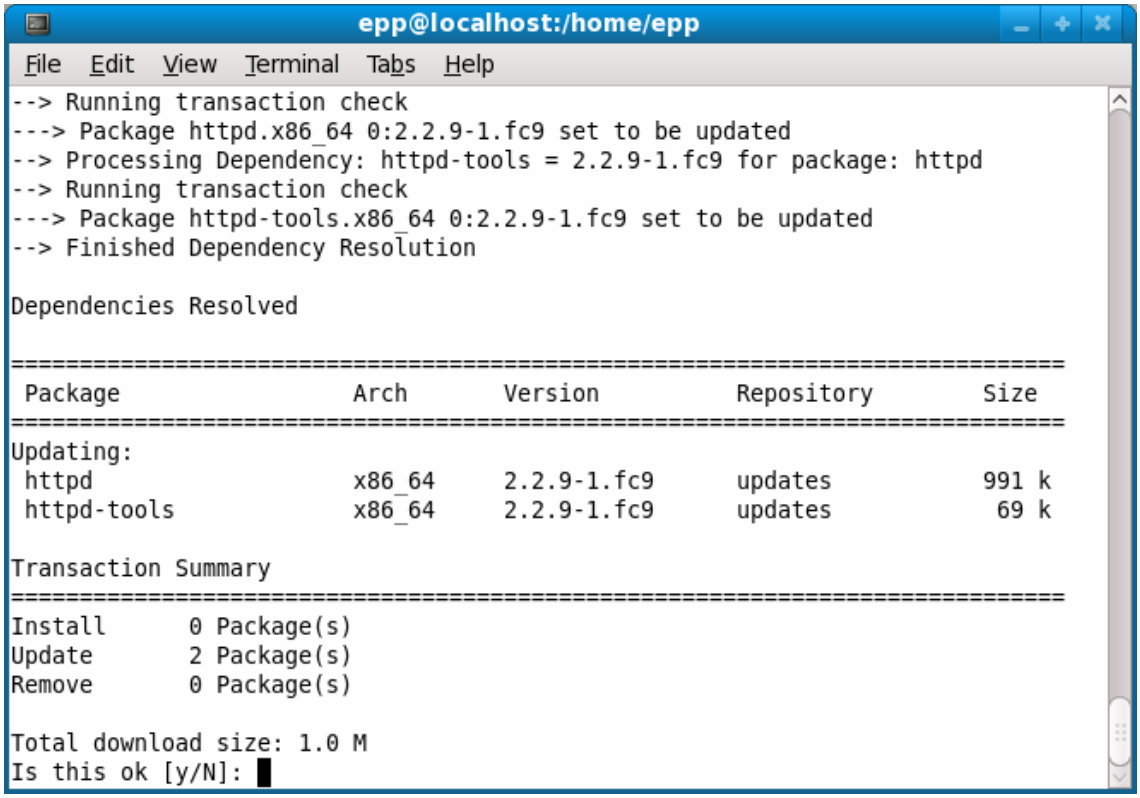
For that please change user to root using: *su root*

2.4.2.2. Installation of required software

Endpoint Protector requires the following software to be installed on your Red Hat system installed:

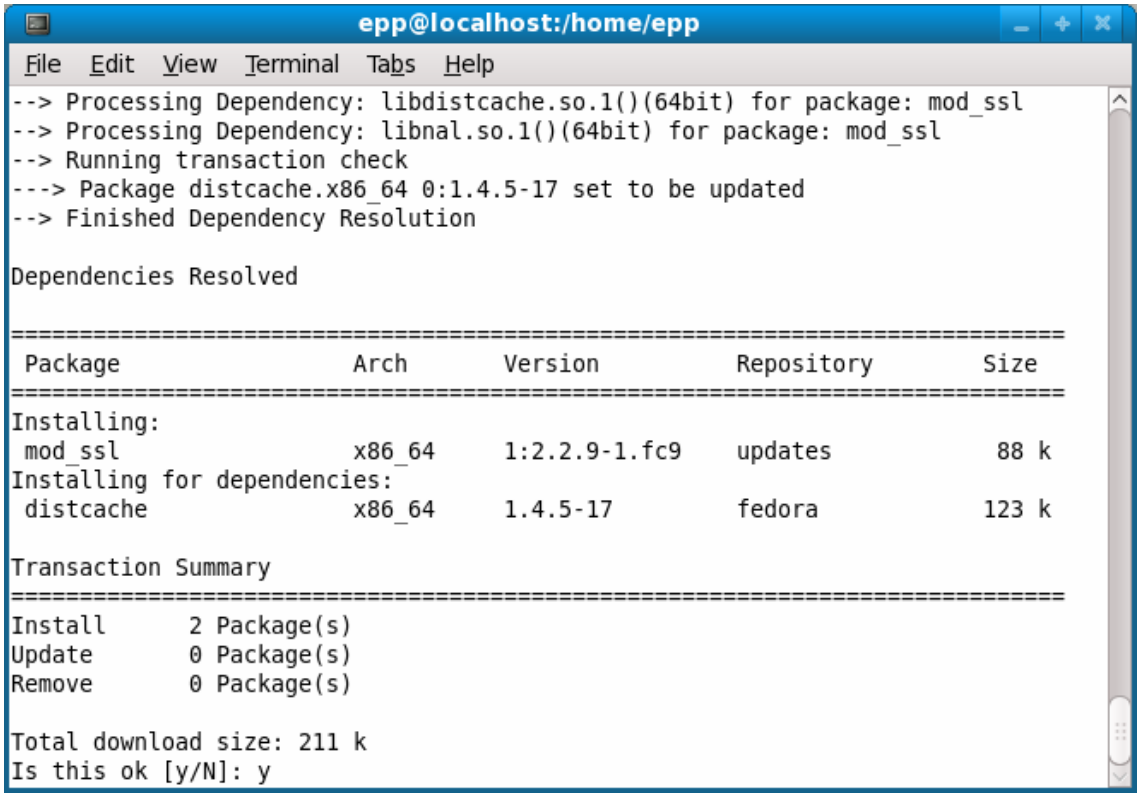
Apache Web Server version 2.X

To install this manually your can issue the command: *yum install httpd*



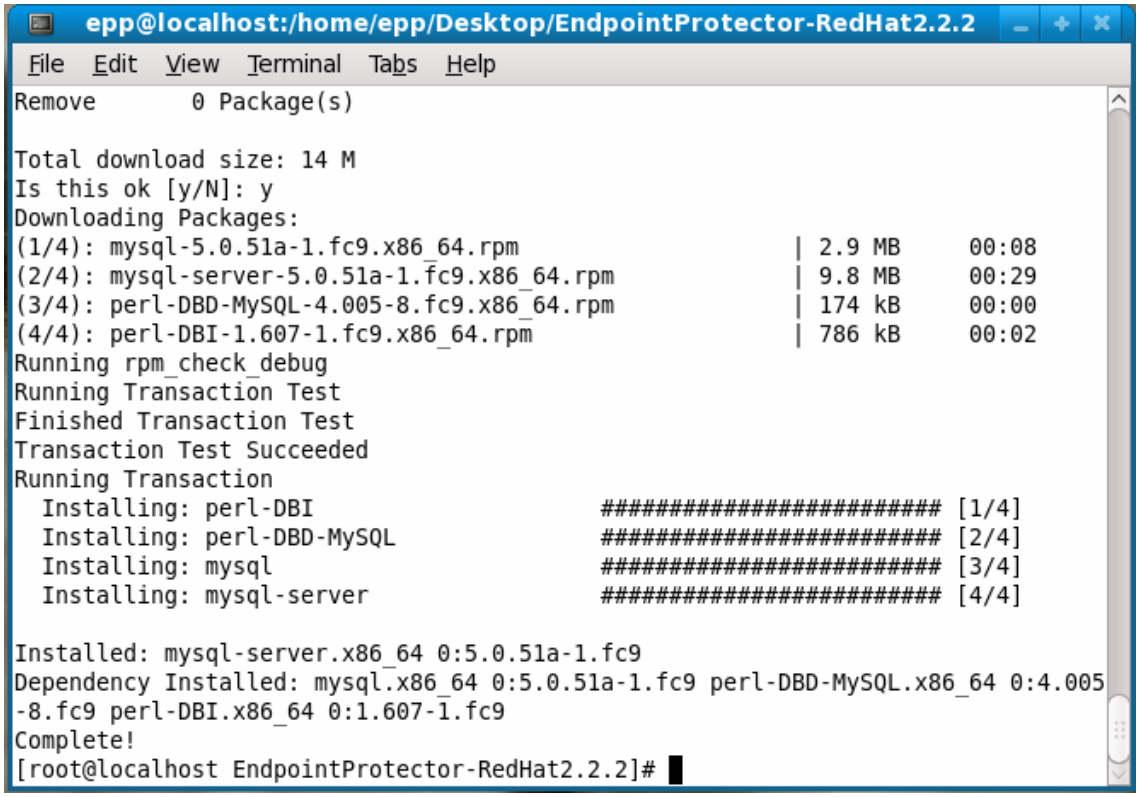
Apache mod_ssl module

To install this manually your can issue the command: *yum install mod_ssl*



MySQL Database Server

To install this manually use the command: *yum install mysql-server*



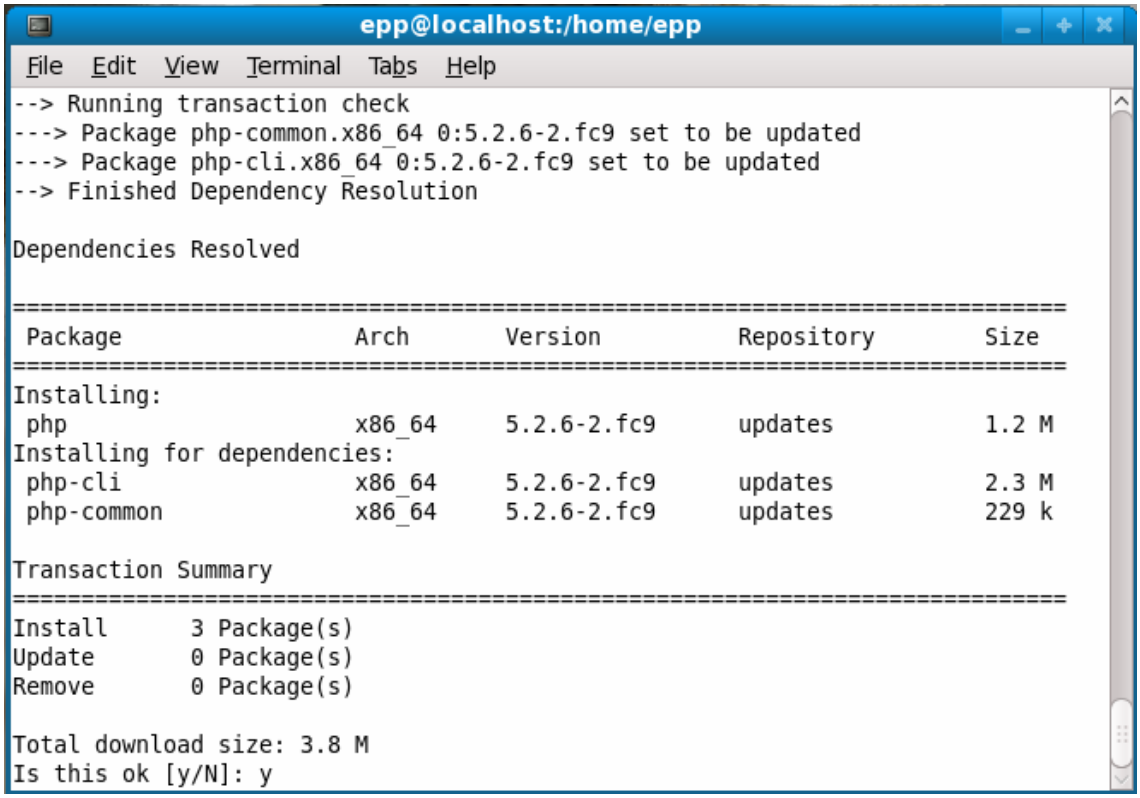
Start mysql service: */etc/init.d/mysqld start*

Define a password for root user of the MySQL Database Server:

/usr/bin/mysqladmin –u root password "pass"

PHP version 5.2.3 or higher

To install this manually, you can issue the command: *yum install php*

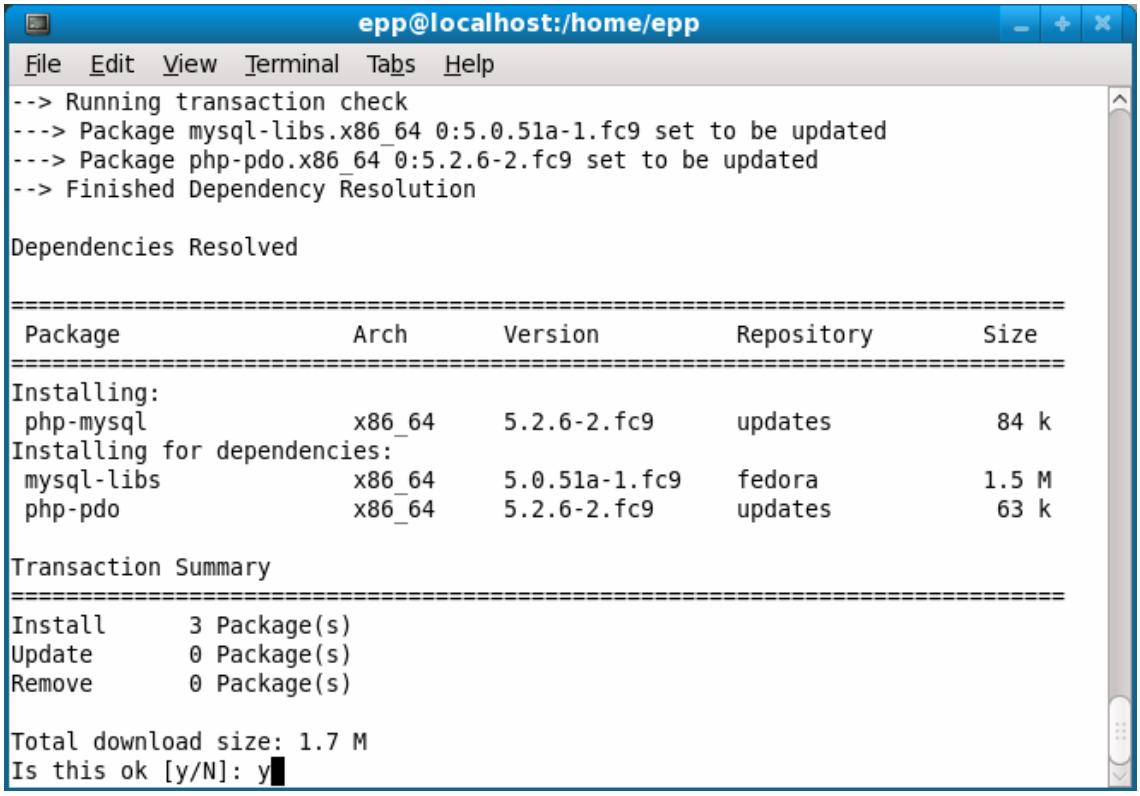


Several extension for PHP 5.2.3 or higher

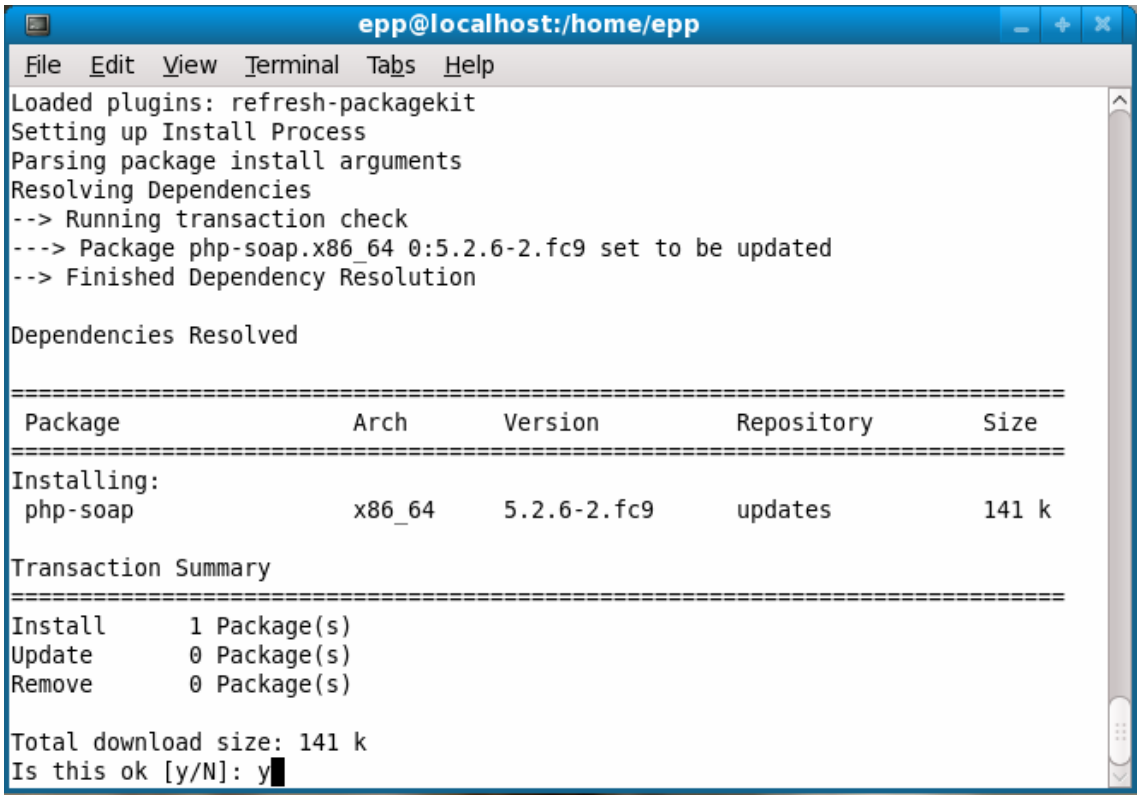
These extensions are: php-mysql, php-soap, php-xml, php-mbstring, php-xmlrpc

To install these extensions manually, you can issue the commands:

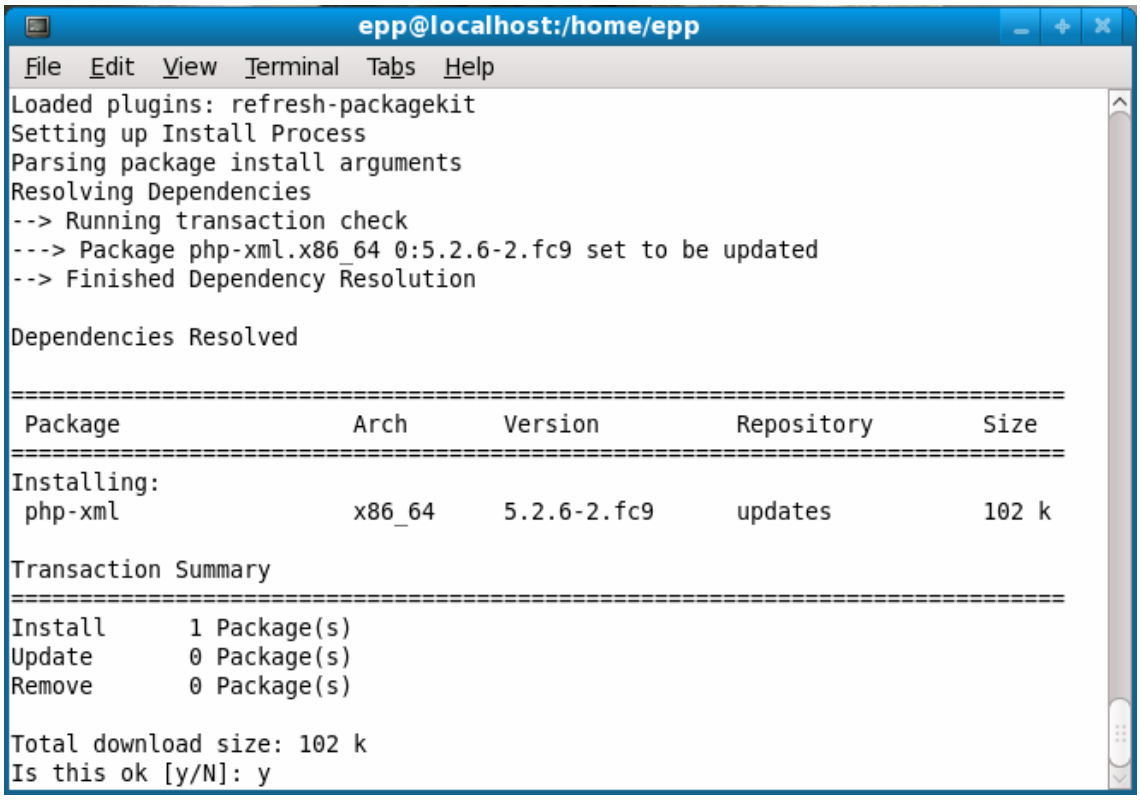
yum install php-mysql



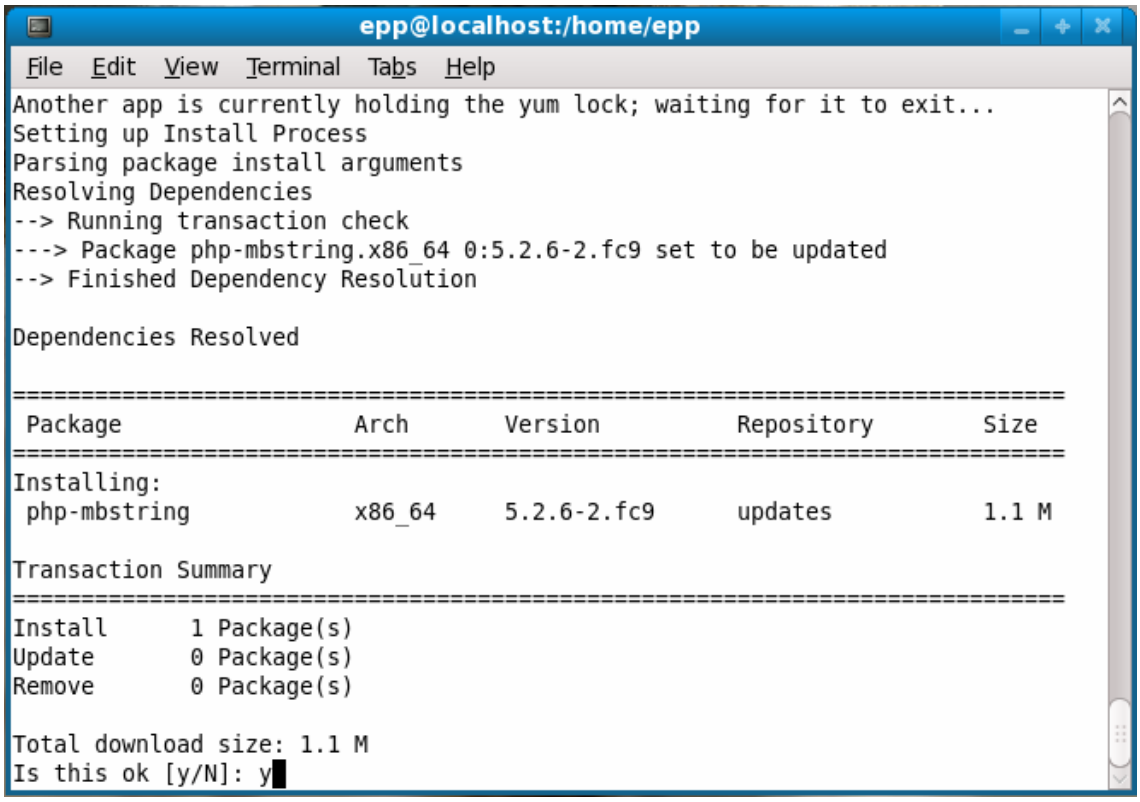
yum install php-soap



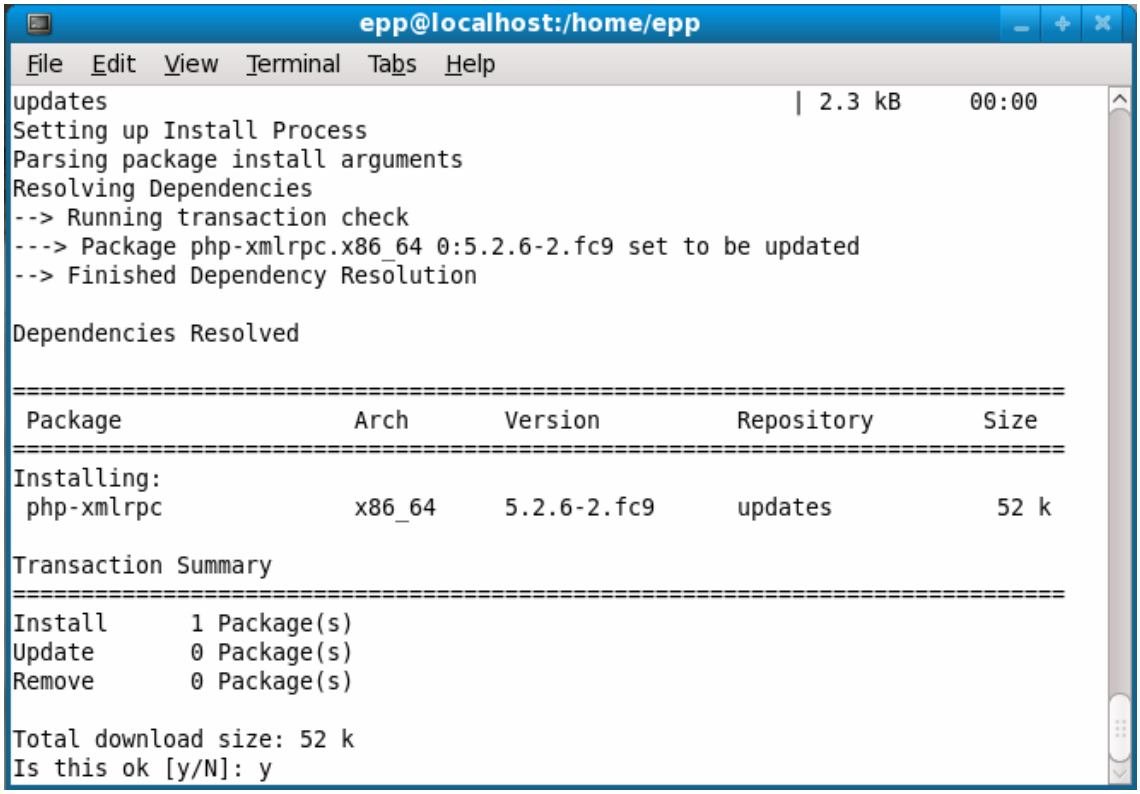
yum install php-xml



yum install php-mbstring

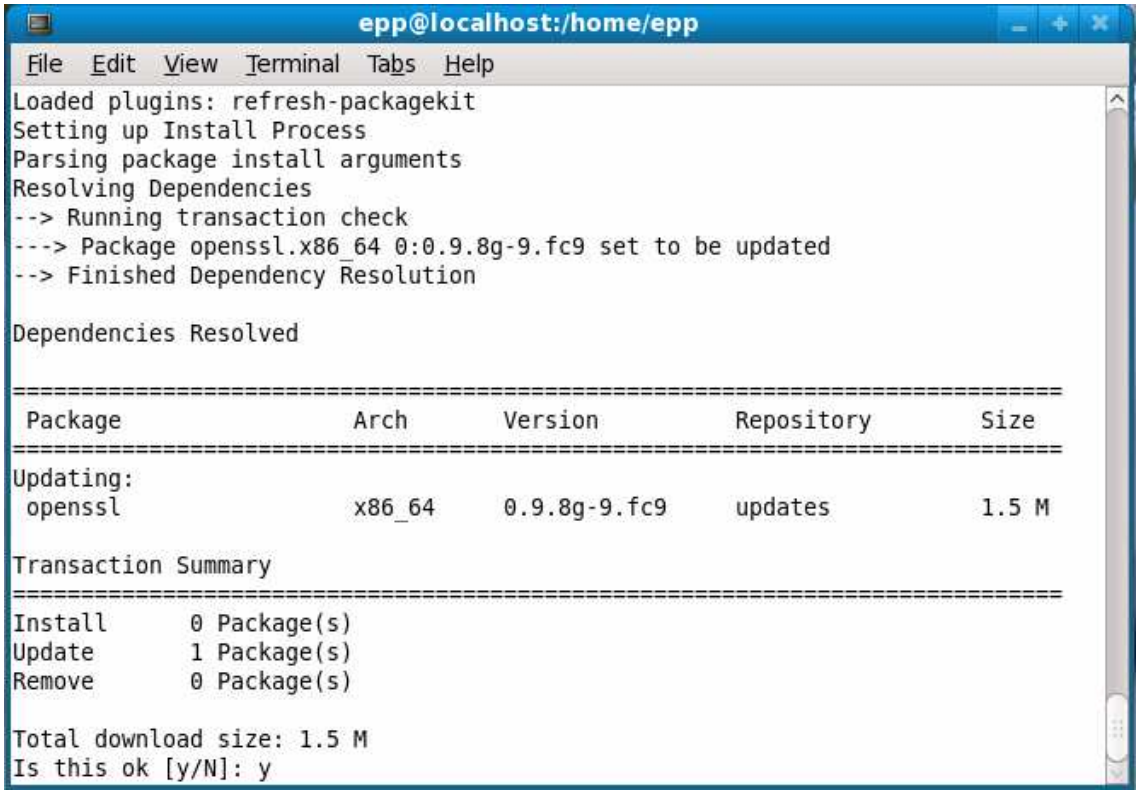


yum install php-xmlrpc



OpenSSL version 0.9.8g

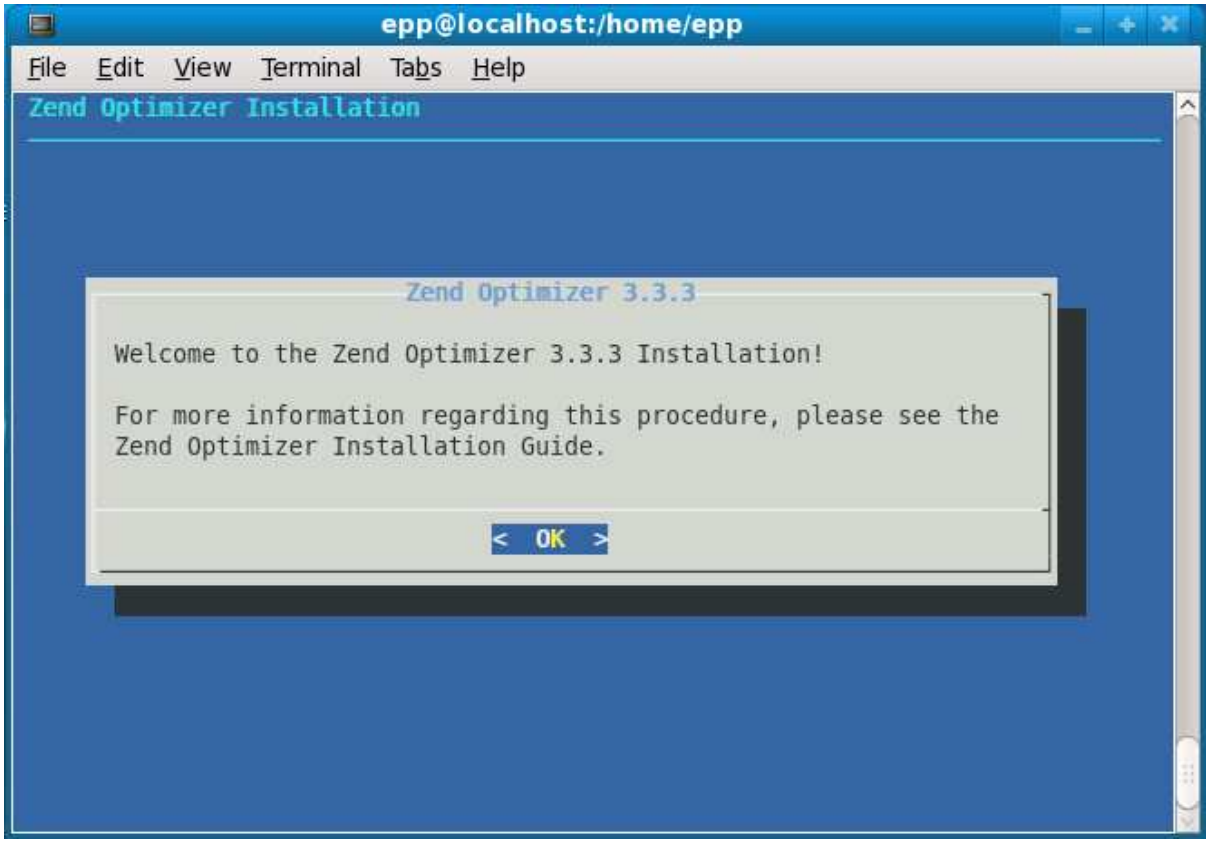
To install this manually, you can issue the command: *yum install openssl*

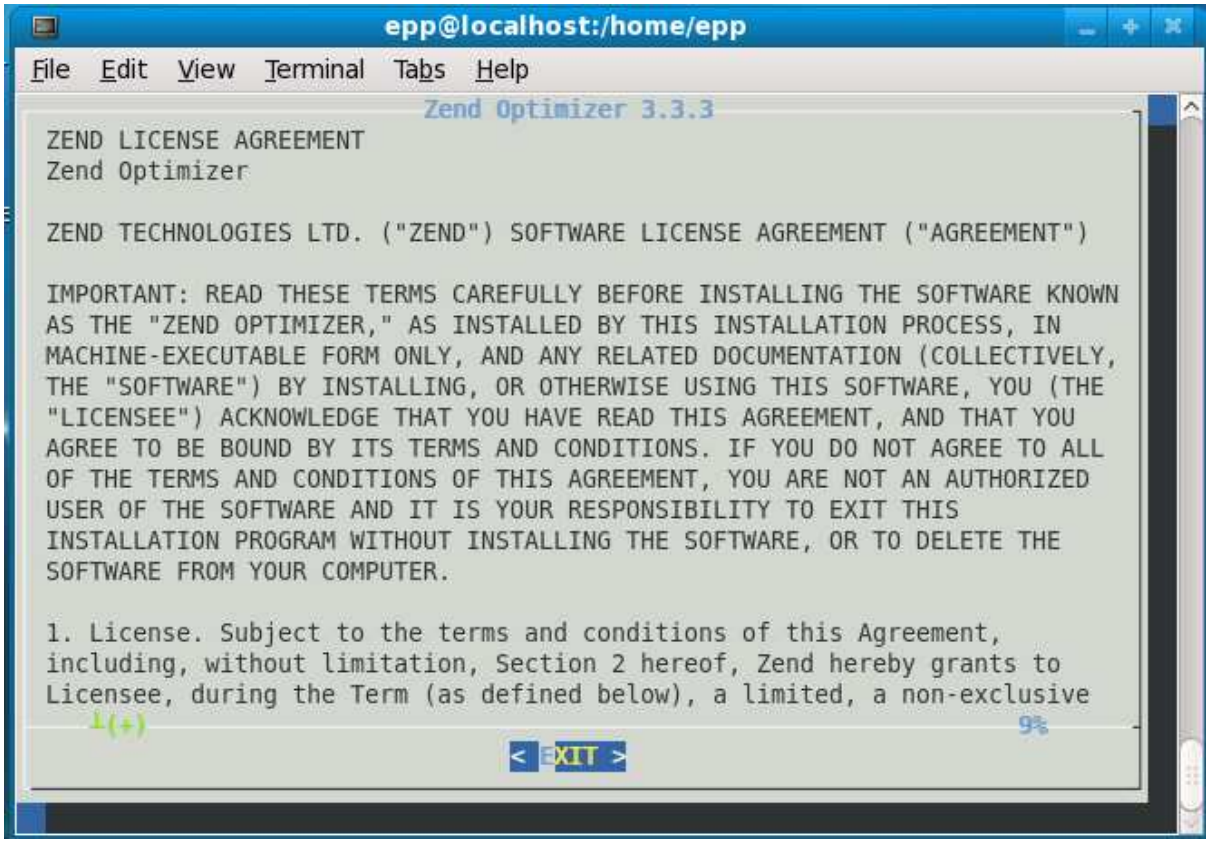


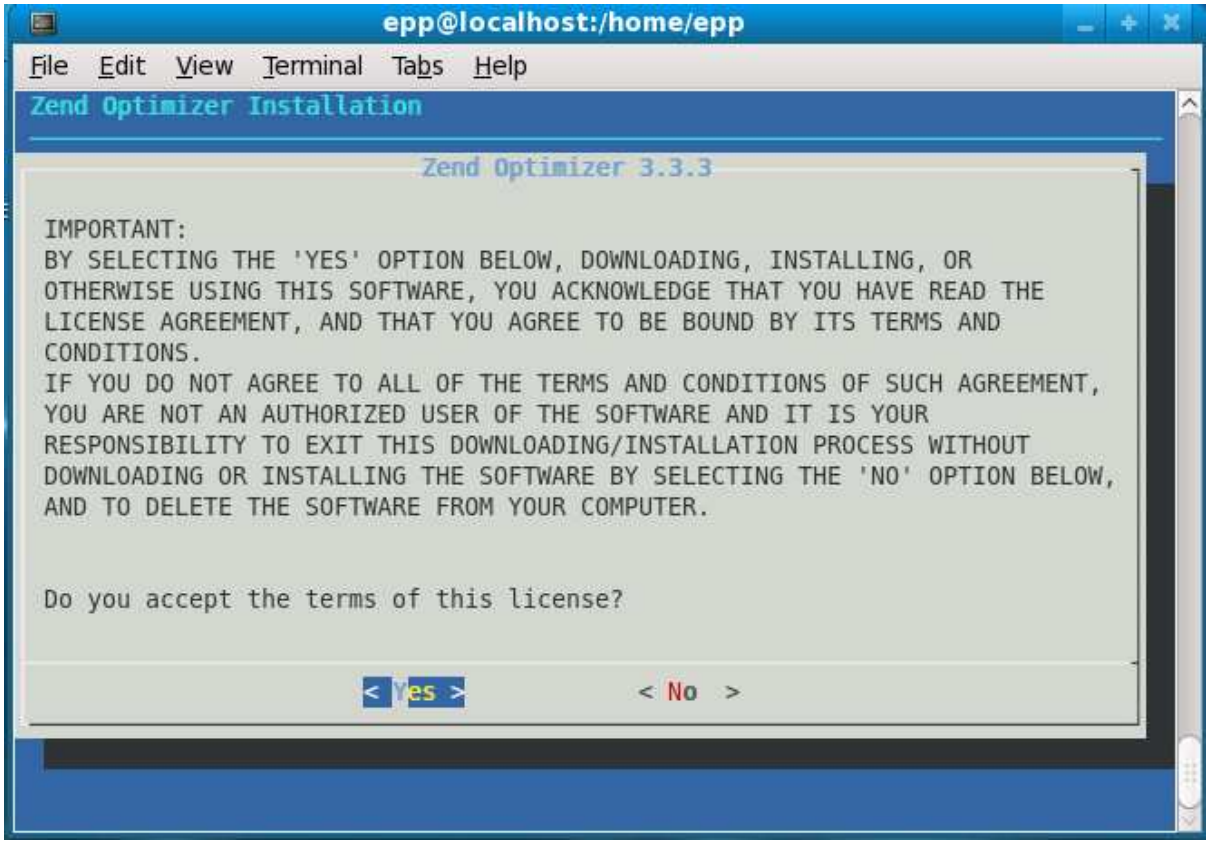
Zend Optimizer 3.3.0

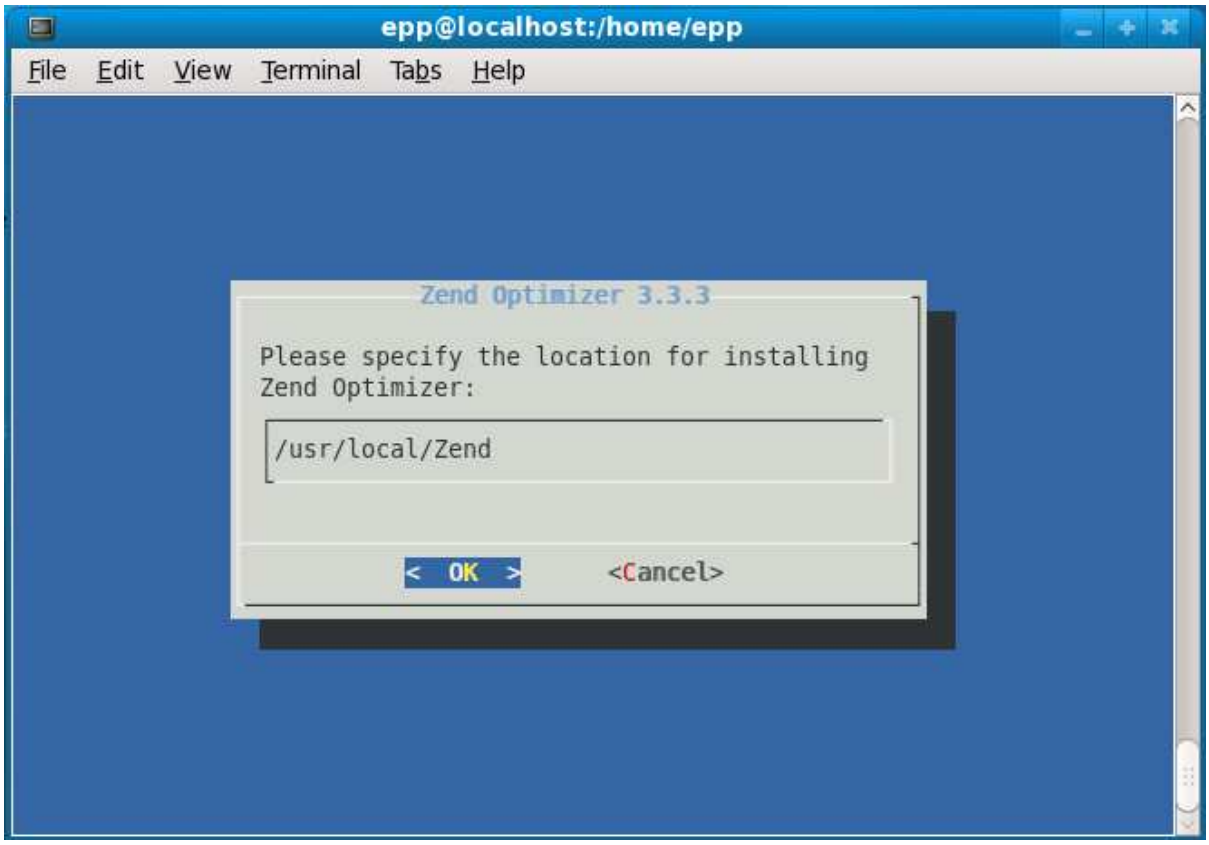
This utility software can be downloaded from the Zend website www.zend.com, or you can use the version bundled with our Endpoint Protector package.

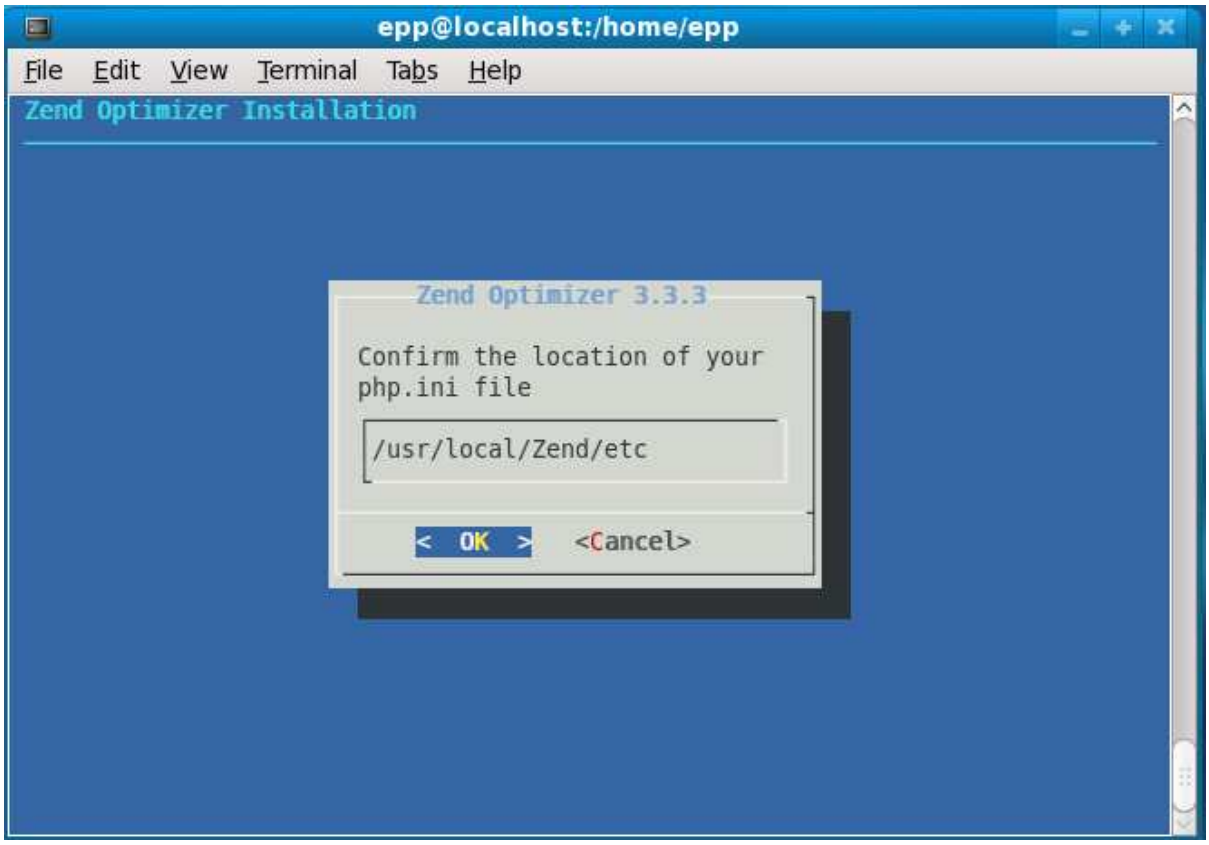
To install Zend Optimizer 3.3.0 run the command *./install.sh* and follow the installation wizard.

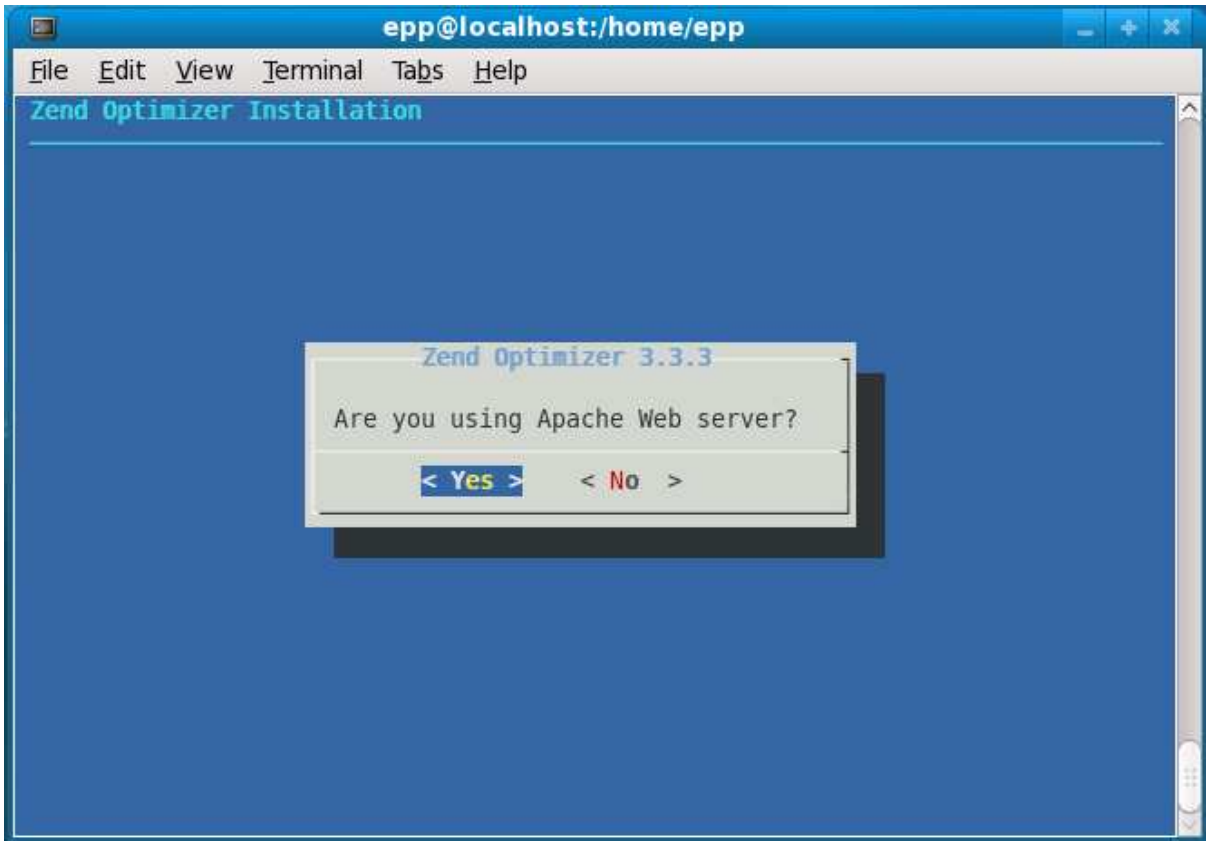


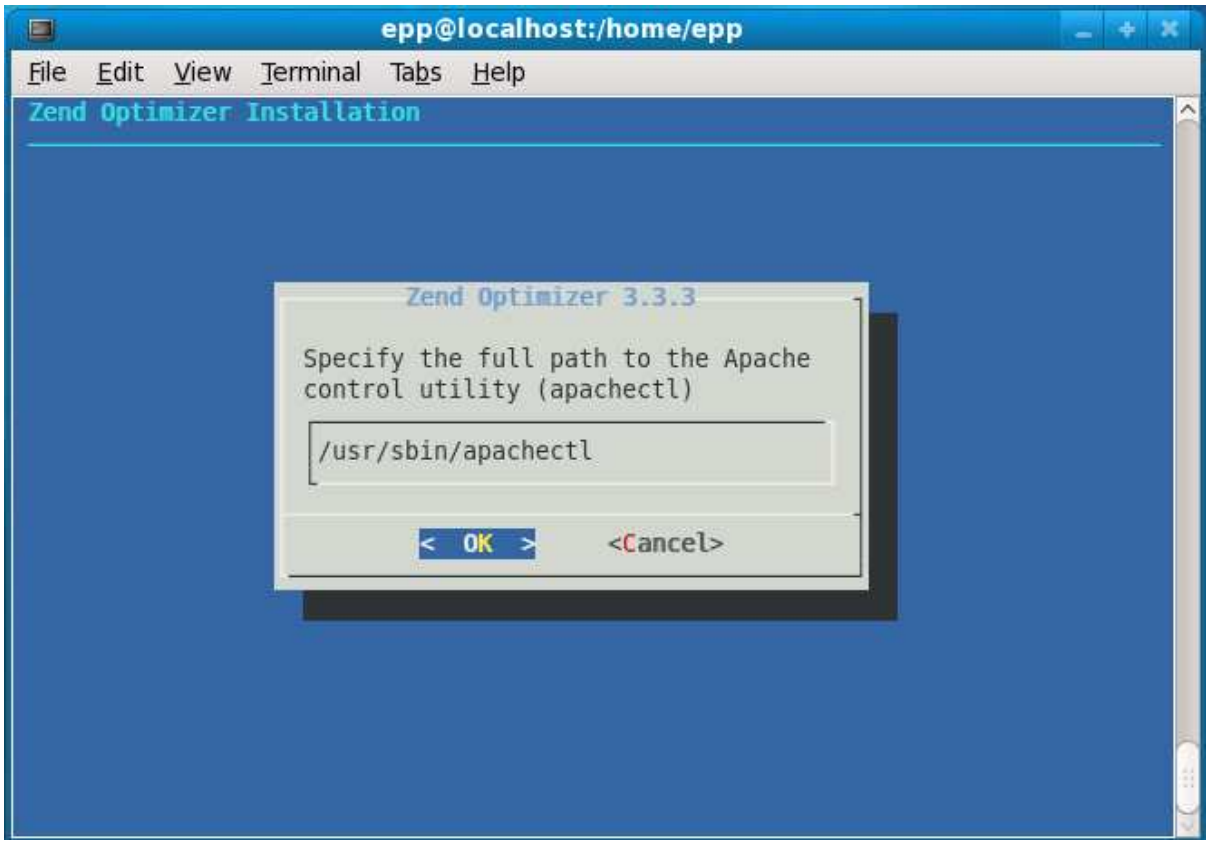

epp@localhost:/home/epp
File Edit View Terminal Tabs Help
Zend Optimizer 3.3.3
ZEND LICENSE AGREEMENT
Zend Optimizer
ZEND TECHNOLOGIES LTD. ("ZEND") SOFTWARE LICENSE AGREEMENT ("AGREEMENT")
IMPORTANT: READ THESE TERMS CAREFULLY BEFORE INSTALLING THE SOFTWARE KNOWN AS THE "ZEND OPTIMIZER," AS INSTALLED BY THIS INSTALLATION PROCESS, IN MACHINE-EXECUTABLE FORM ONLY, AND ANY RELATED DOCUMENTATION (COLLECTIVELY, THE "SOFTWARE") BY INSTALLING, OR OTHERWISE USING THIS SOFTWARE, YOU (THE "LICENSEE") ACKNOWLEDGE THAT YOU HAVE READ THIS AGREEMENT, AND THAT YOU AGREE TO BE BOUND BY ITS TERMS AND CONDITIONS. IF YOU DO NOT AGREE TO ALL OF THE TERMS AND CONDITIONS OF THIS AGREEMENT, YOU ARE NOT AN AUTHORIZED USER OF THE SOFTWARE AND IT IS YOUR RESPONSIBILITY TO EXIT THIS INSTALLATION PROGRAM WITHOUT INSTALLING THE SOFTWARE, OR TO DELETE THE SOFTWARE FROM YOUR COMPUTER.
1. License. Subject to the terms and conditions of this Agreement, including, without limitation, Section 2 hereof, Zend hereby grants to Licensee, during the Term (as defined below), a limited, a non-exclusive
1(+)
9%
< EXIT >

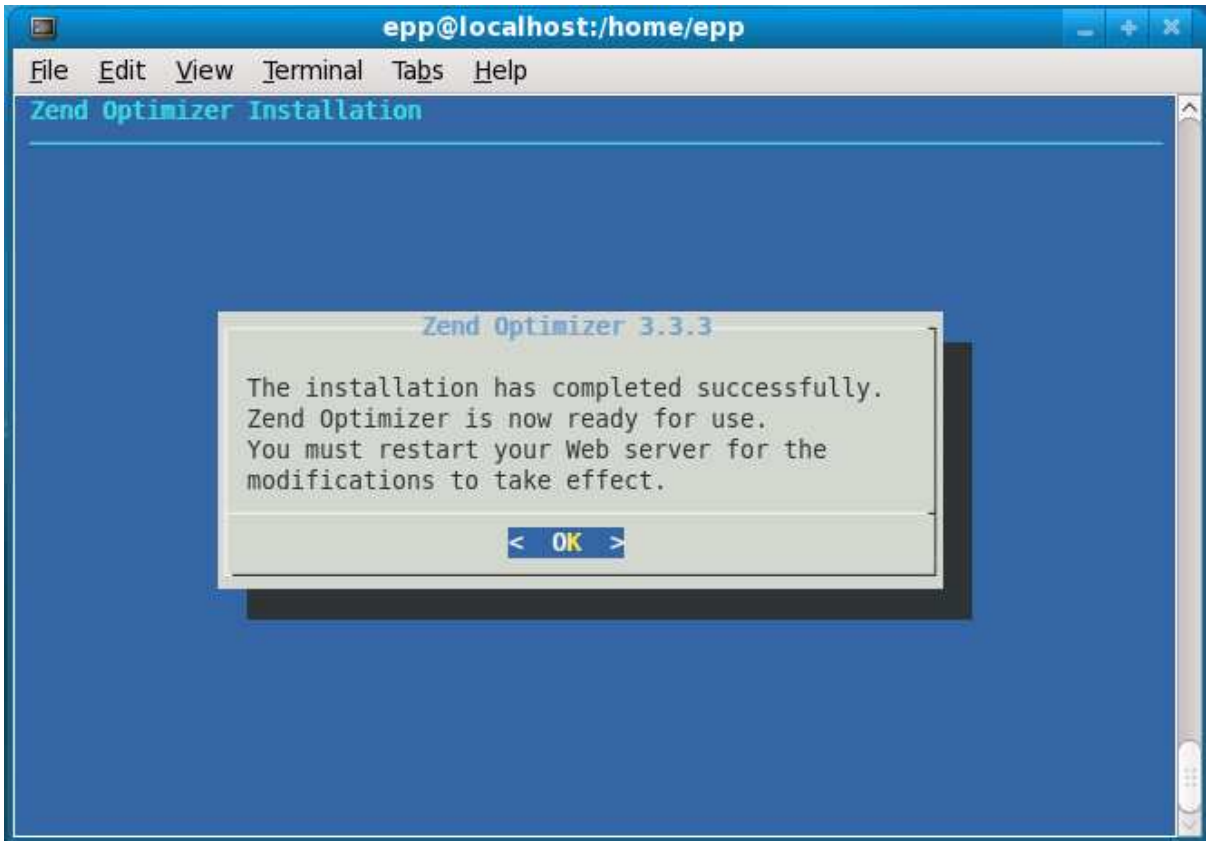

epp@localhost:/home/epp
File Edit View Terminal Tabs Help
Zend Optimizer Installation
Zend Optimizer 3.3.3
IMPORTANT:
BY SELECTING THE 'YES' OPTION BELOW, DOWNLOADING, INSTALLING, OR OTHERWISE USING THIS SOFTWARE, YOU ACKNOWLEDGE THAT YOU HAVE READ THE LICENSE AGREEMENT, AND THAT YOU AGREE TO BE BOUND BY ITS TERMS AND CONDITIONS.
IF YOU DO NOT AGREE TO ALL OF THE TERMS AND CONDITIONS OF SUCH AGREEMENT, YOU ARE NOT AN AUTHORIZED USER OF THE SOFTWARE AND IT IS YOUR RESPONSIBILITY TO EXIT THIS DOWNLOADING/INSTALLATION PROCESS WITHOUT DOWNLOADING OR INSTALLING THE SOFTWARE BY SELECTING THE 'NO' OPTION BELOW, AND TO DELETE THE SOFTWARE FROM YOUR COMPUTER.
Do you accept the terms of this license?
< Yes >
< No >

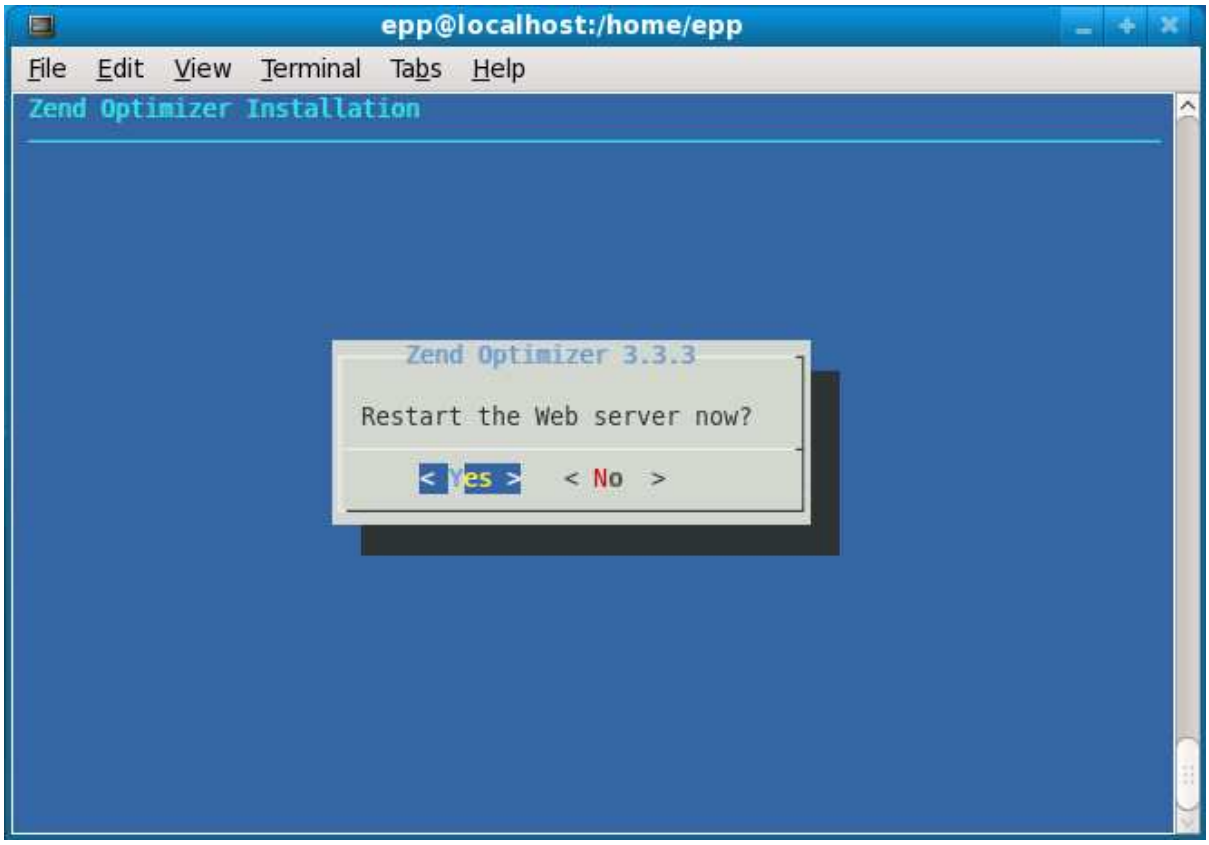

epp@localhost:/home/epp
File Edit View Terminal Tabs Help
Zend Optimizer 3.3.3
Please specify the location for installing
Zend Optimizer:
/usr/local/Zend
< OK >
<Cancel>

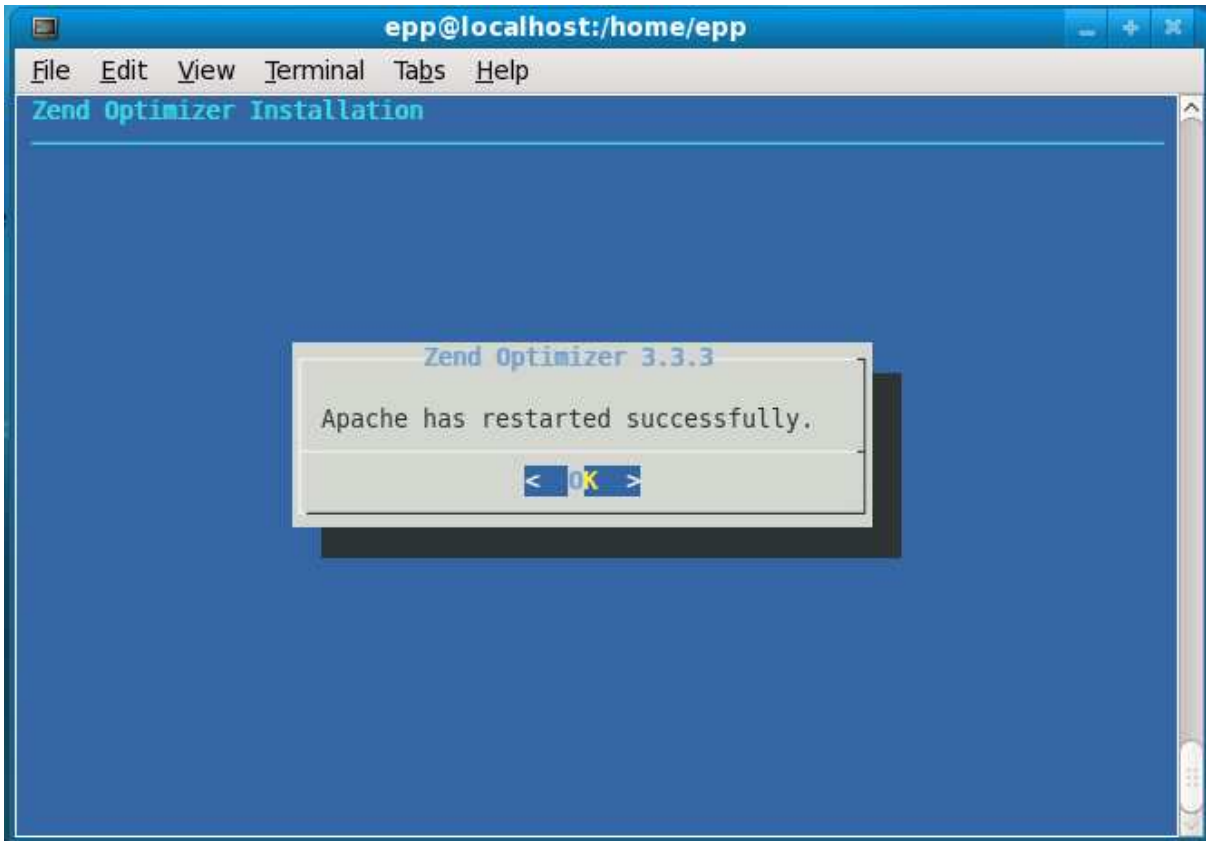

epp@localhost:/home/epp
File Edit View Terminal Tabs Help
Zend Optimizer Installation
Zend Optimizer 3.3.3
Confirm the location of your php.ini file
/usr/local/Zend/etc
< OK >
<Cancel>


epp@localhost:/home/epp
File Edit View Terminal Tabs Help
Zend Optimizer Installation
Zend Optimizer 3.3.3
Are you using Apache Web server?
< Yes >
< No >


epp@localhost:/home/epp
File Edit View Terminal Tabs Help
Zend Optimizer Installation
Zend Optimizer 3.3.3
Specify the full path to the Apache control utility (apachectl)
/usr/sbin/apachectl
< OK >
<Cancel>


epp@localhost:/home/epp
File Edit View Terminal Tabs Help
Zend Optimizer Installation
Zend Optimizer 3.3.3
The installation has completed successfully.
Zend Optimizer is now ready for use.
You must restart your Web server for the modifications to take effect.
< OK >


epp@localhost:/home/epp
File Edit View Terminal Tabs Help
Zend Optimizer Installation
Zend Optimizer 3.3.3
Restart the Web server now?
< Yes >
< No >


epp@localhost:/home/epp
File Edit View Terminal Tabs Help
Zend Optimizer Installation
Zend Optimizer 3.3.3
Apache has restarted successfully.
< OK >

Note! The Security Enhanced Linux (SELinux) feature will prevent the loading of Zend Optimizer components. Please follow these commands to remedy the situation:

chcon –t texrel_shlib_t /usr/local/Zend/lib/Optimizer-3.3.3/php-5.2.x/ZendOptimizer.so

chcon –t texrel_shlib_t /usr/local/Zend/lib/ZendExtensionManager.so

execstack –c /usr/local/Zend/lib/Optimizer-3.3.3/php-5.2.x/ZendOptimizer.so

execstack –c /usr/local/Zend/lib/ZendExtensionManager.so

After executing the commands, please restart the *httpd* service using the following command:

/etc/init.d/httpd restart

Note! The MySQL and httpd components are not installed as a service and therefore they will not start automatically after reboot. Please follow these commands to remedy the situation:

/sbin/chkconfig mysql on

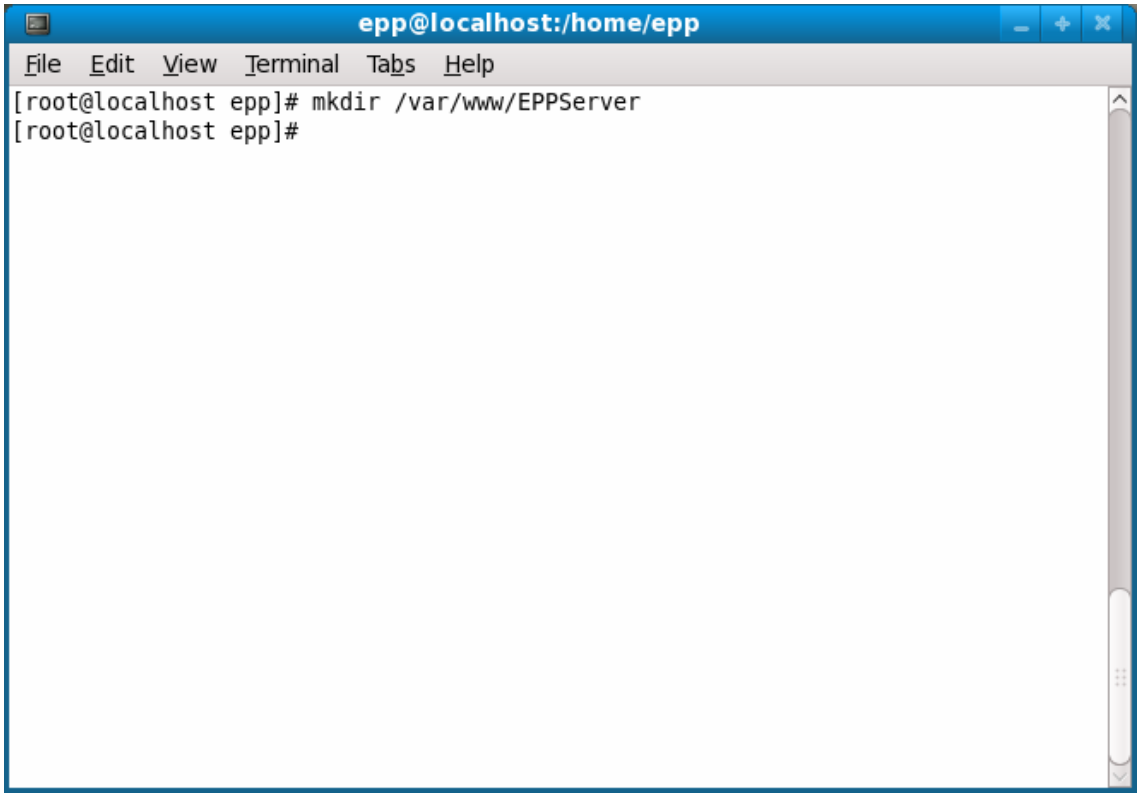
/sbin/chkconfig httpd on

These commands will force the two components to start automatically with the system.

2.4.2.3. Installation of Endpoint Protector files

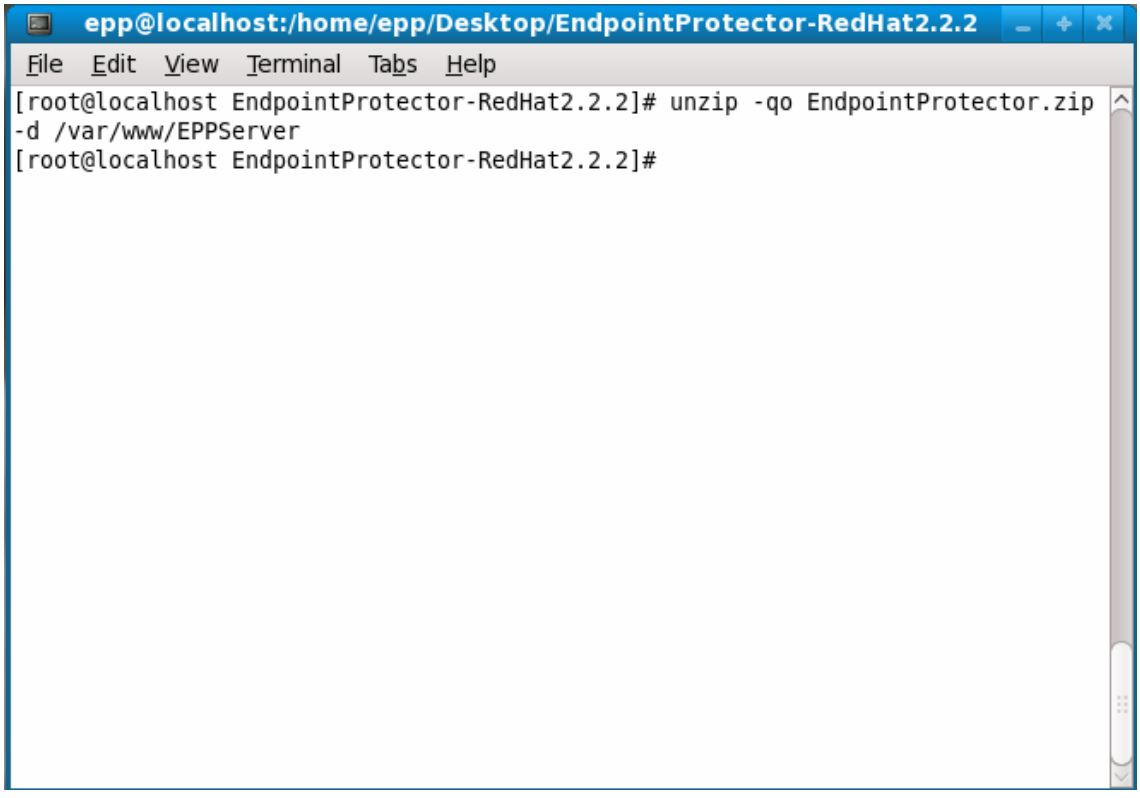
First step from installation of Endpoint Protector Server files should be the creation of a new folder which will host the application files.

Command: mkdir /var/www/EPPServer

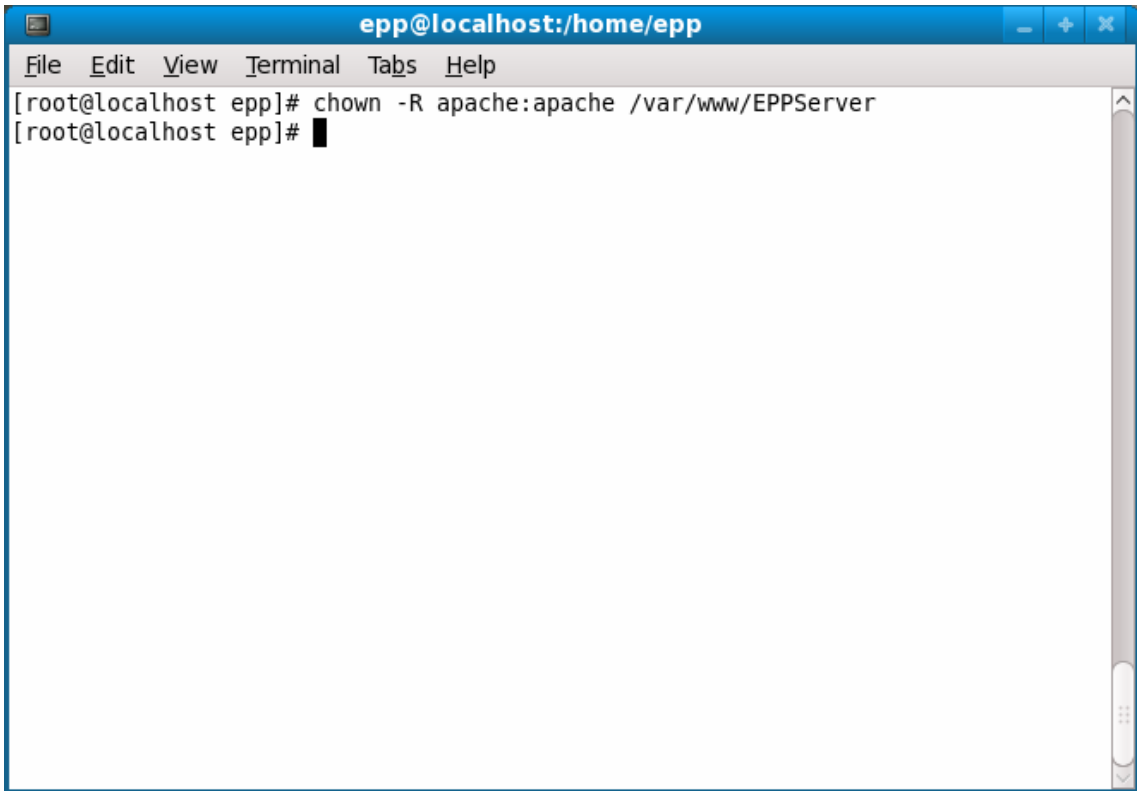


The location /var/www/ is a good choice because the Endpoint Protector is actually a web application.

The archive EndpointProtector.zip should be extracted in the folder created above.
Command: unzip *–qo EndpointProtector.zip –d /var/www/EPPServer*



Please change the owner of the new created folder to the user apache or the user which is set to run Apache Web Server.
Command: chown –R apache:apache /var/www/EPPServer



2.4.2.4. Configuration of Endpoint Protector

Configuration of Endpoint Protector Server is a complex part of the installation process. We recommend you to use the provided script for configuration.

Command: ./configureRedHat.sh

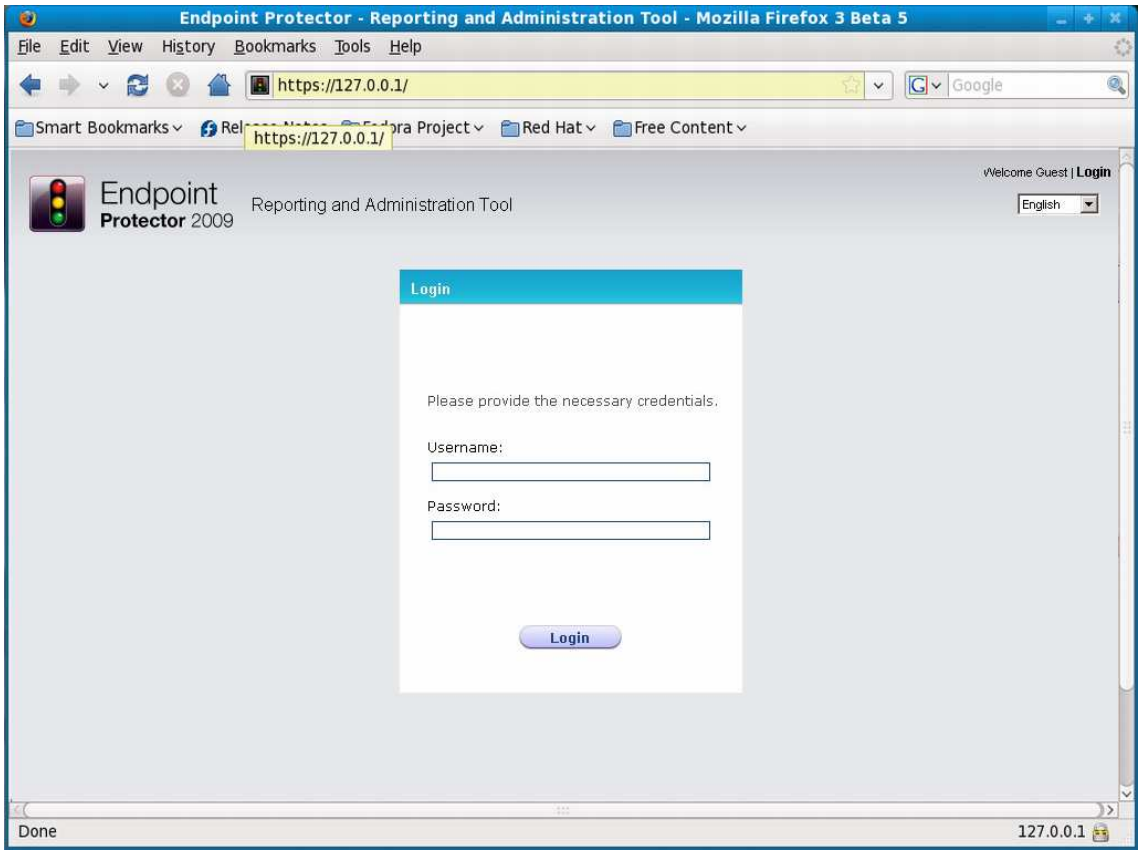
Following there are the manual configuration steps:

- Create and populate the database with default data
- Create a new Certificate Authority and a new Server Certificate
- Create the Endpoint Protector configuration files
    - /var/www/eppserver/sieratool/config/databases.yml
    - /var/www/eppserver/sieratool/config/_autoload_classes.php
    - /var/www/eppserver/sieratool/config.php
    - /var/www/eppserver/sieratool/settings.php
    - /var/www/eppserver/sieratool.apps/rattol/config/configws.php
    - /var/www/eppserver/sieratool.apps/rattol/config/config.php
    - /var/www/eppserver/sieratool/config/propel.ini
- Creating the Apache configuration file.
- Change the permissions for cache, logs and uploads folder so they can be accessible also for writing.

  Commands:

  chmod –R 777 /var/www/eppserver/sieratool/cache
  chmod –R 777 /var/www/eppserver/sieratool/logs
  chmod –R 777 /var/www/eppserver/sieratool/web/uploads

Access from web browser https://127.0.0.1



3. Client Installation

3.1. Client Installation on Windows

Please make sure that the .NET Framework 2.0 is installed on your client PC before installing the 'Endpoint Protector Setup.msi'.

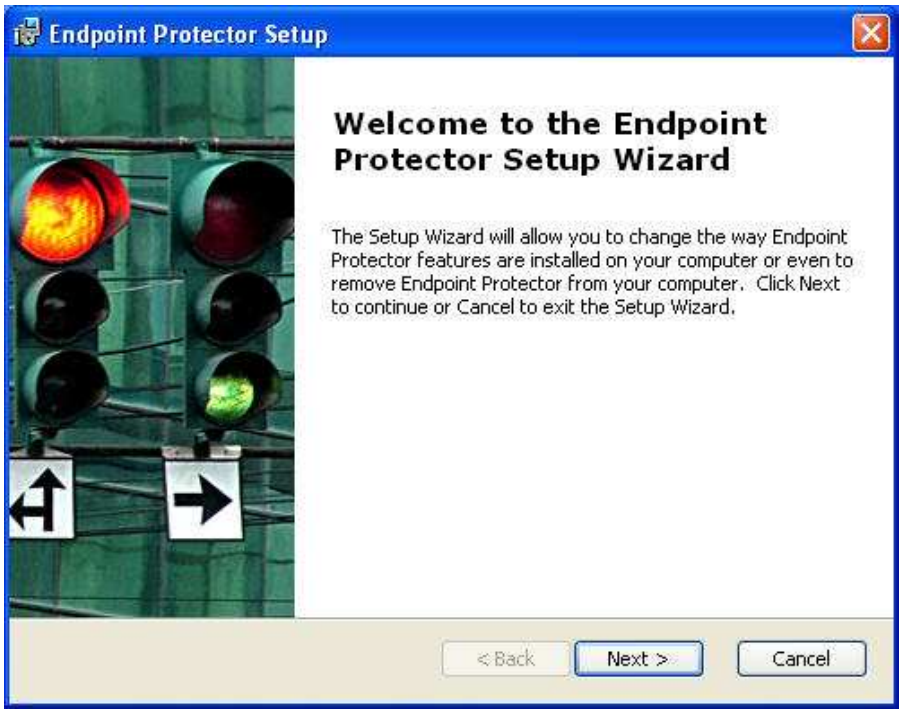
In case you see the following message, you do not have installed .NET Framework 2.0 or there was an error during the install process.

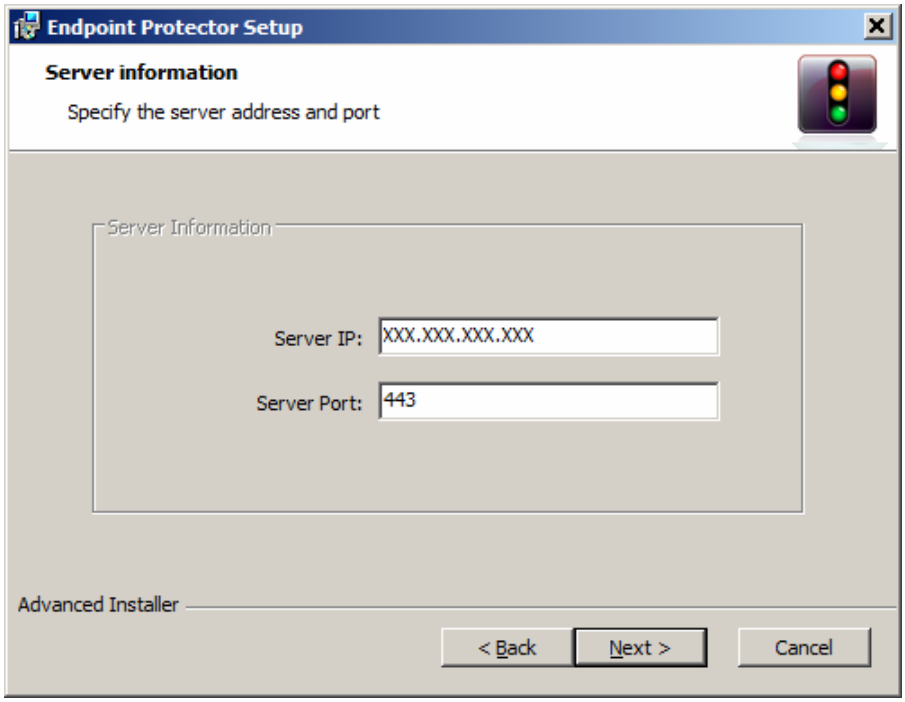
If this is the case, please install .NET Framework or repair the already existing installation.

Please assure that your client PC has full internet access / network connectivity without any interference from firewalls, etc.

You will have received an MSI for your installation (EPPClientSetup.msi).
The MSI requires you to include the correct Server Settings to connect to the Endpoint Protector Server.

Launch the MSI and follow the steps through the installation process.





Server IP: [XXX.XXX.XXX.XXX]
Server Port: default 443

Attention!

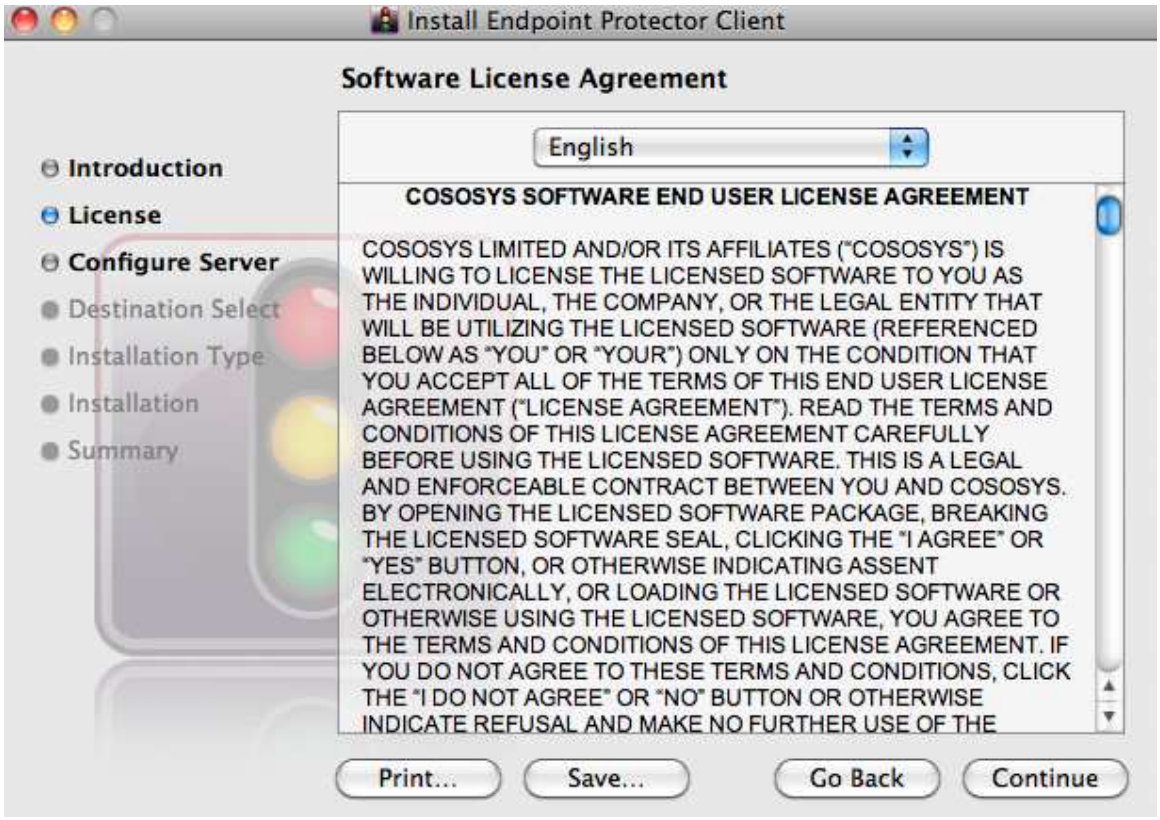
If your Endpoint Protector is not using the default 443 port, please introduce the correct port.

You should not be required to add additional information in the installation process.

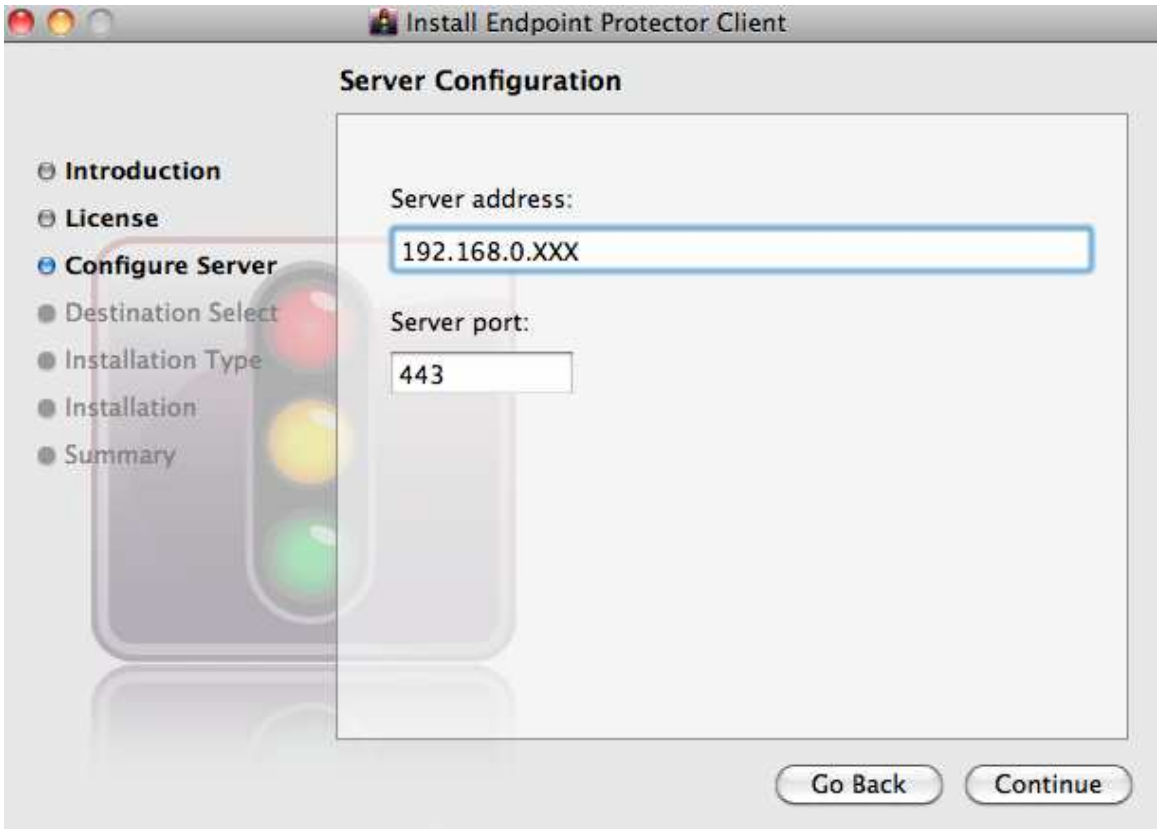
3.2. Client Installation on Mac OS

To install Endpoint Protector Client on a Mac PC, you must first unzip the archive with the Endpoint Protector Mac Client application and double-click on the 'EndpointProtectorClient.pkg'. Next, in the Endpoint Protector Client Installer window, please press the "Continue" button from the right down corner, which will initiate the installation process.

As a first step, please read carefully the Software License Agreement and press "Agree" and then "Continue" if you accept the terms of the agreement.

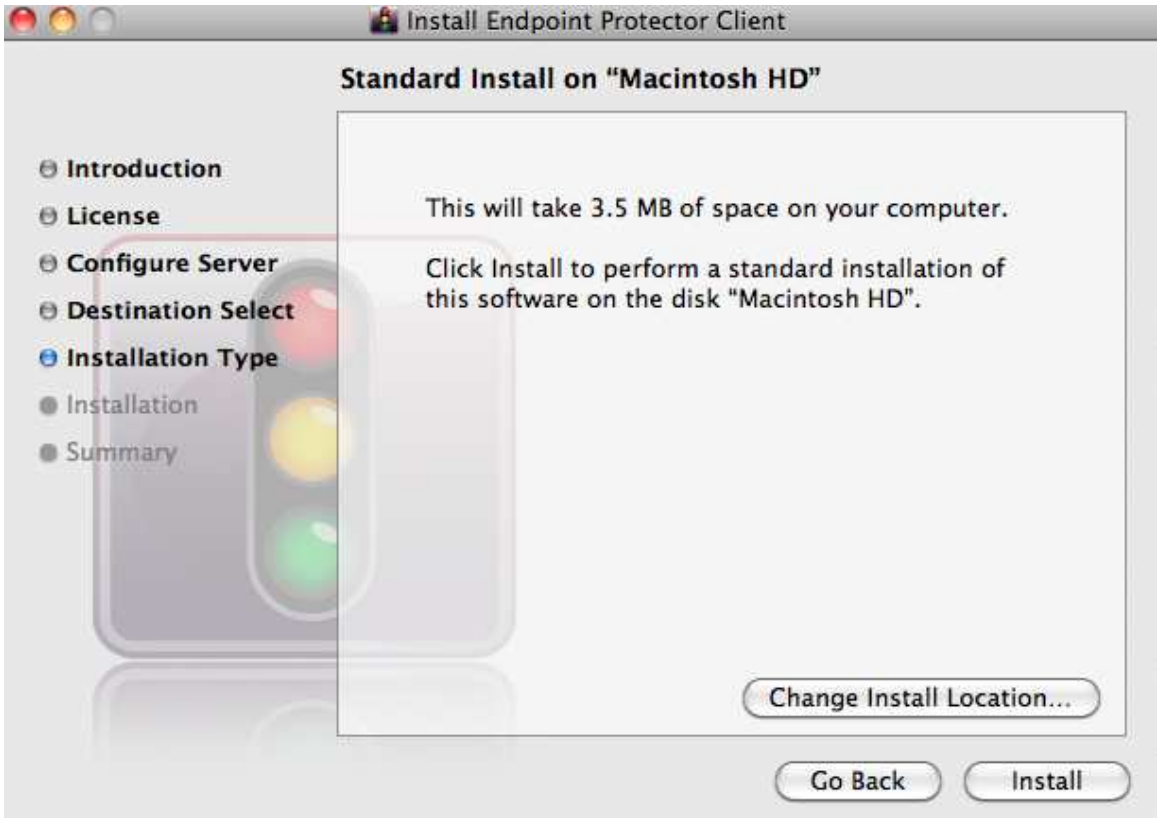


Next, inside the Server Configuration window, please enter the IP Address of your Endpoint Protector Server and continue with the next step.

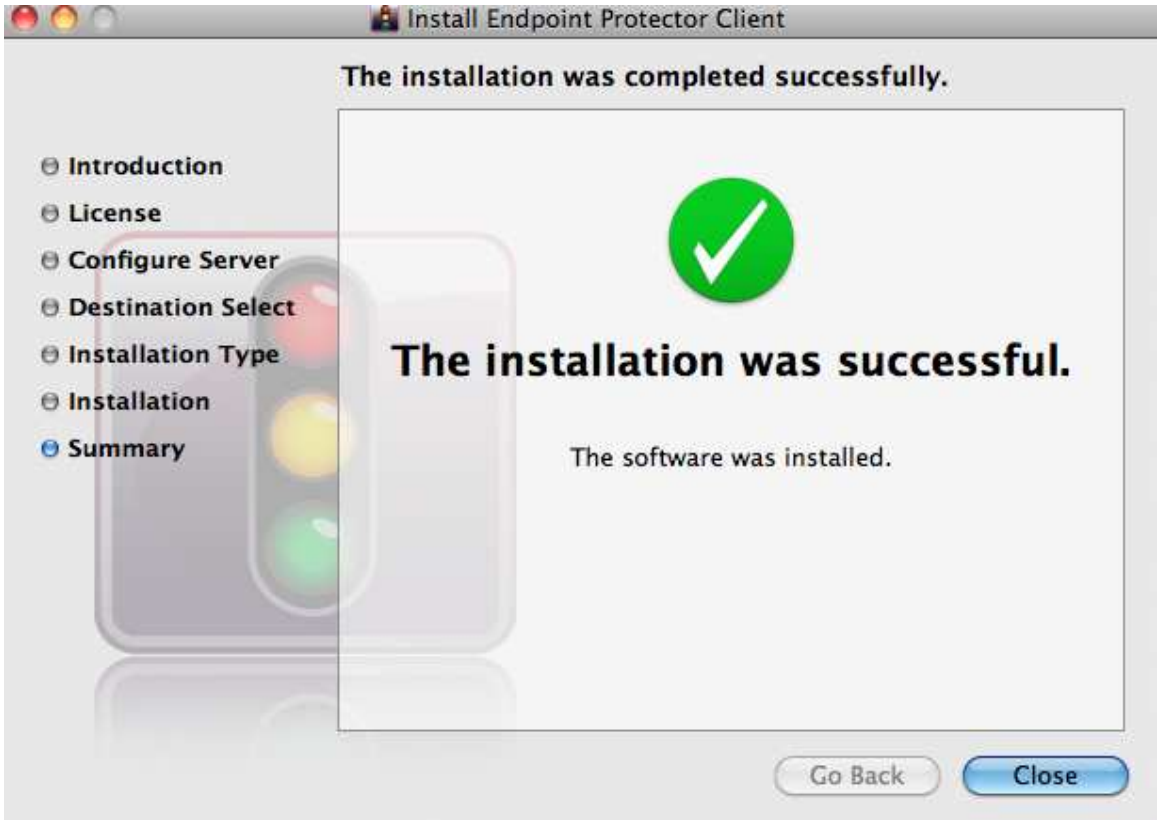


At the Destination Select step, please select the disk where you want to install Endpoint Protector Client and click “Continue”.

Now, please press the "Install" button for the installation to be completed. A window will be displayed where you are asked to introduce your Administrator credentials (username and password).



If the installation is completed successfully, please press the "Close" button to exit setup.



Next, please press the F4 key for the Dashboard to be displayed and browse for the Endpoint Protector icon. After finding the corresponding icon and clicking on it, a similar screen with the one below will be displayed:

For Offline Device Authorization, please enter the ID provided by your Administrator. Based on this ID, a temporary password will be generated inside the Endpoint Protector Server, which will be sent to you by your Administrator. This password must be entered in the Device Authorization window, as shown in the screenshot below, for being able to access offline the devices connected to your MAC.

3.3. Remote Deployment of Endpoint Protector Client

Info!

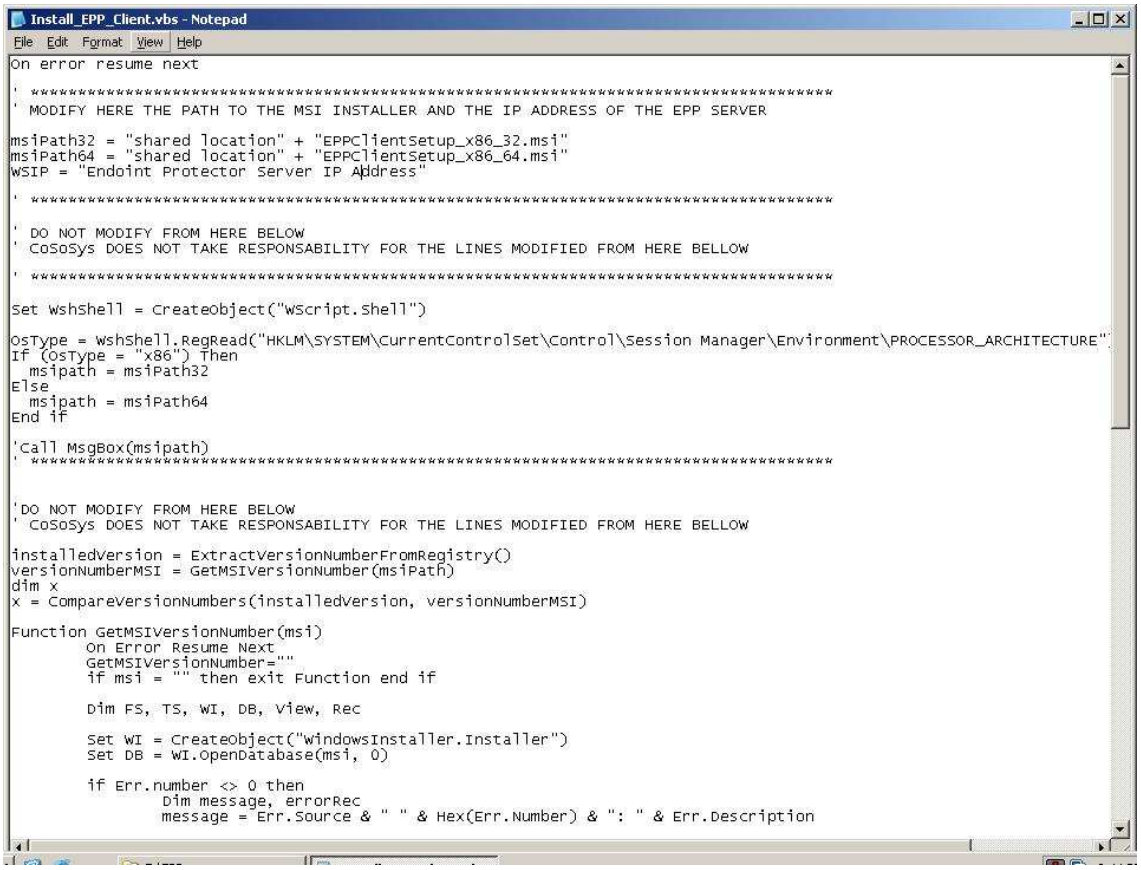
The following deployment of clients can be also done over the Endpoint Protector – Reporting and Administration Tool web interface. Please follow the user manual and the wizard instructions for this enhanced deployment feature.

You can automatically install Endpoint Protector Client for all your network computers through Active Directory and Group Policy Objects. This can be done by following the next steps:

1. Copy the files ***'EPPClientSetup_x86_32.msi'*** and ***'EPPClientSetup_x86_64.msi'*** to a shared network folder. Be sure to set the sharing and security permissions for the folder to Everyone – Read Only.

2. Copy the supplied "**Install_EPP_Client**" Visual Basic script file (found in \Tools folder of Endpoint Protector Installation kit) into the same shared folder. This script queries the registry to see if Endpoint Protector Client is installed on the computer and also for the version of operating system targeted: 32 or 64 bit Windows. If it's not, it will run the proper installer, and if it is installed, it will check if the installed version is older than the version of the installer itself. msiexec command runs with the /i option for installation and the /qn option for silent installation meaning that the user will not be prompt for any information during install time.

You will need to edit the script prior to using it in the deployment of clients. To do this, simply right-click the script file and select "Edit". This will open your text editor, by default Notepad, and will allow you to make changes to the file.



There are only two values which need to be edited in this script file:

“shared location” = “” – here you need to enter the path to the shared folder which contains both 32 and 64 bit Endpoint Protector client”.

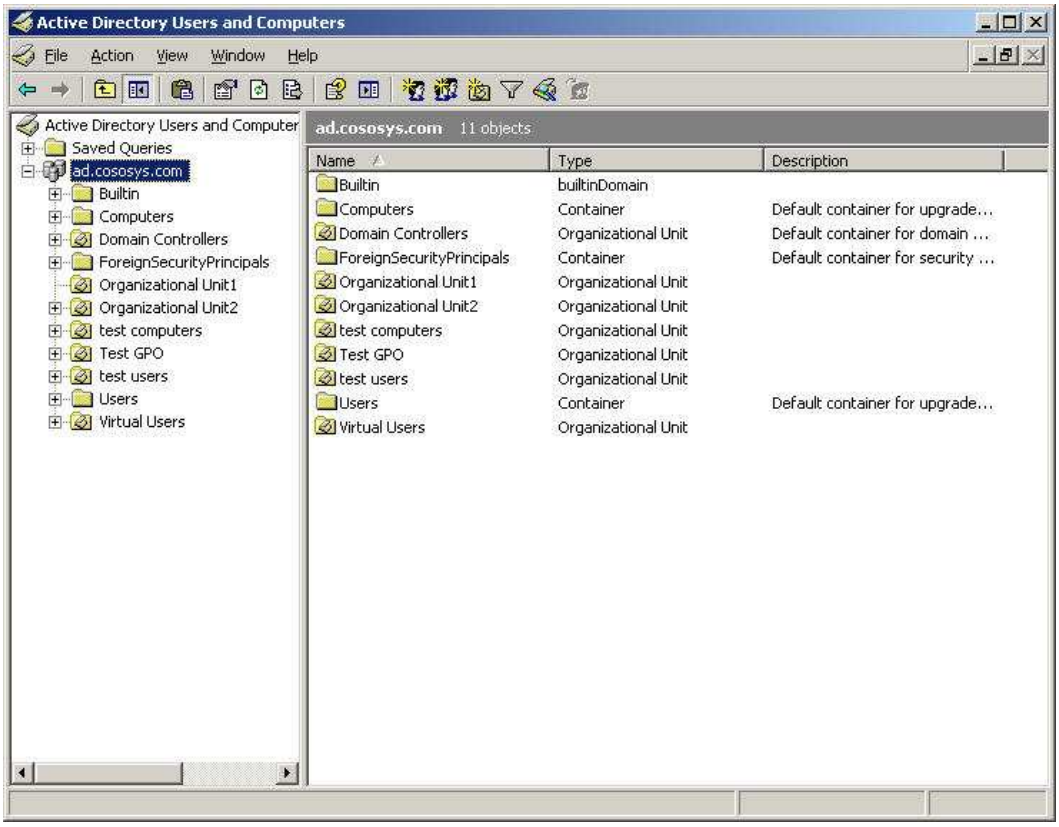
Example: “\\server\Shared Folder\EPPClient\”

“Endpoint Protector Server IP Address” =”” – here you need to enter the IP of the Endpoint Protector Server

Example: “192.168.0.35” or “35.74.254.98”

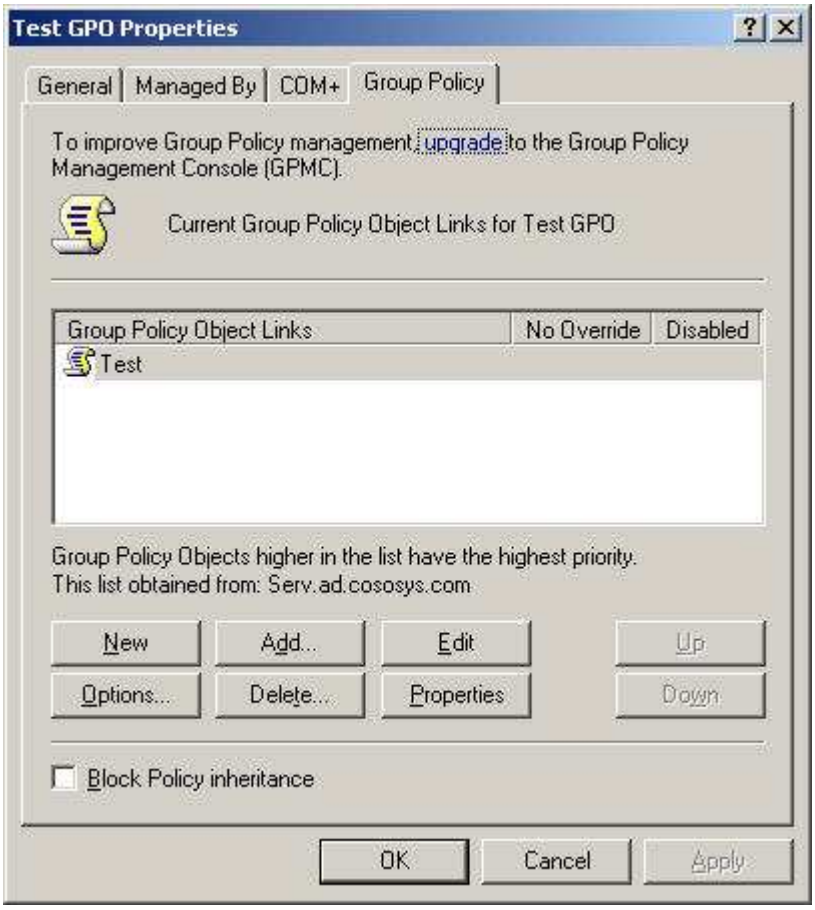
Save the changes after finishing editing this file.

3. Choose “Start> Programs> Administrative Tools”, and click “Active Directory Users and Computers”. You should see the following window:



4. Right-click the Organizational Unit you want to assign the policy to, and select Properties.

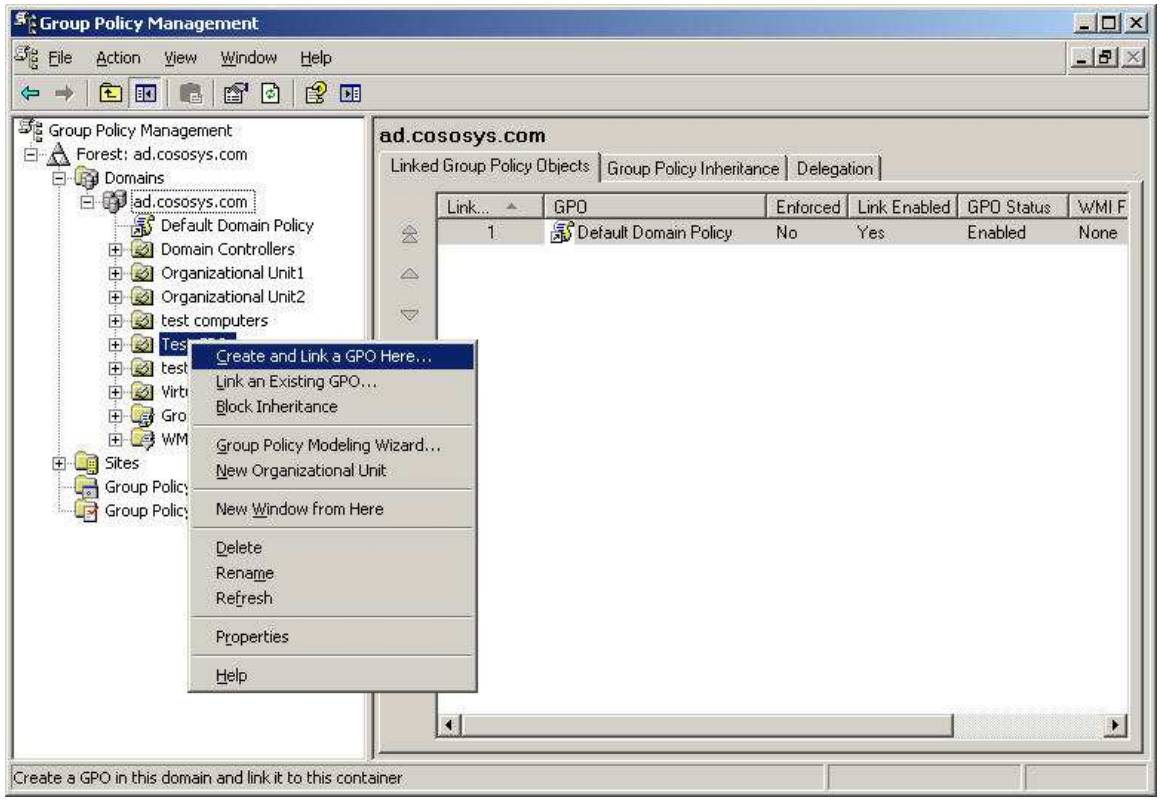
5. Select the Group Policy tab, and if you don't have the Group Policy Management Console installed, you should see the following window:



Click the New button, and then continue with step 7.

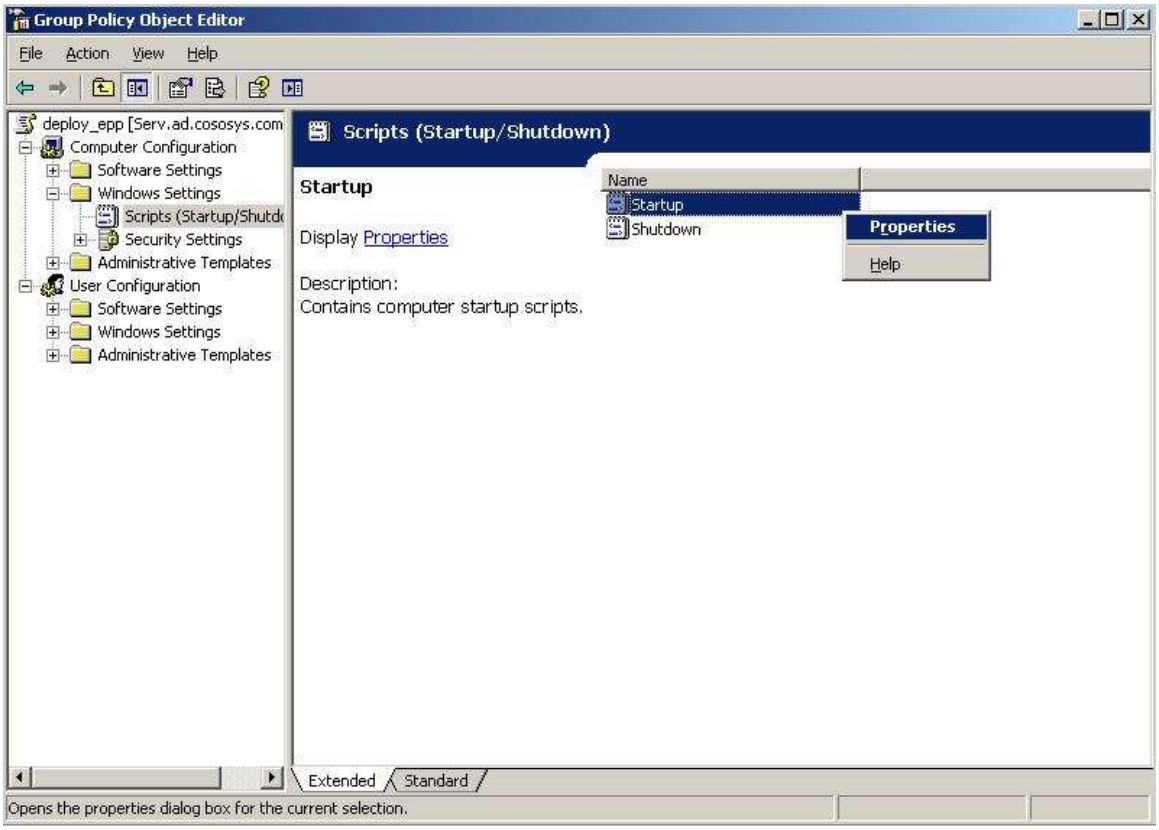
6. If you have the Group Policy Management Console installed, click the Open button:

7. In the Organizational Unit tree view on the left, select the desired OU (Organizational Unit), right-click it and choose Create and Link a GPO here

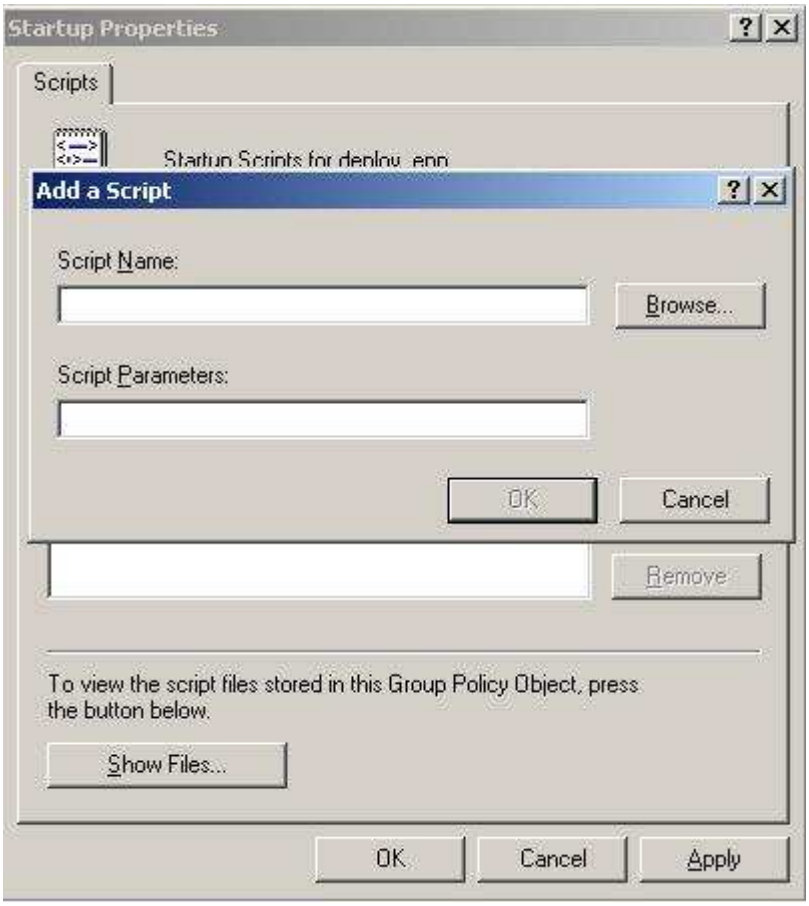


8. Name your Group Policy Object accordingly, right-click it and then select Edit. The Group Policy Object Editor console is started.

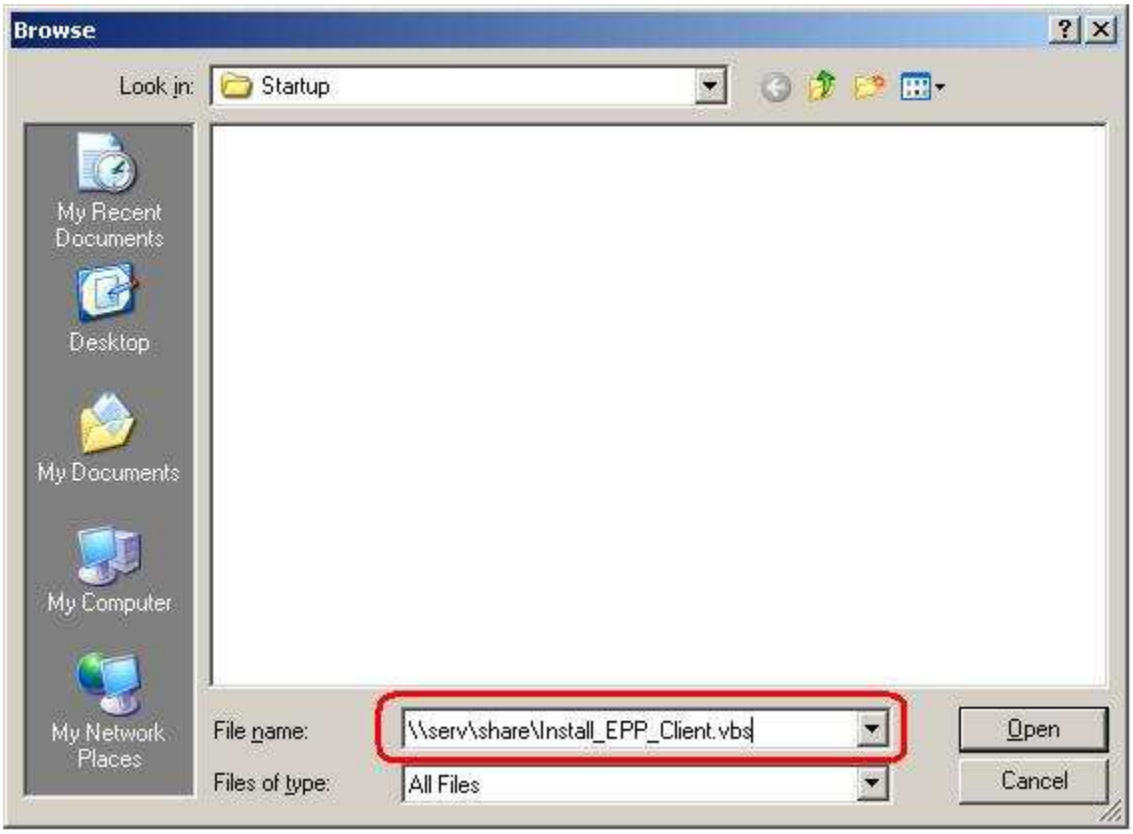
9. Go to "**Computer Configuration**" / "**Windows Settings**" / "**Scripts**" (**Startup/Shutdown**). Right click on "**Startup**" and choose "**Properties**".



10. From the **Startup Properties** window select **Add**. A new window will be displayed. Select **Browse** to search for the script you want to use.

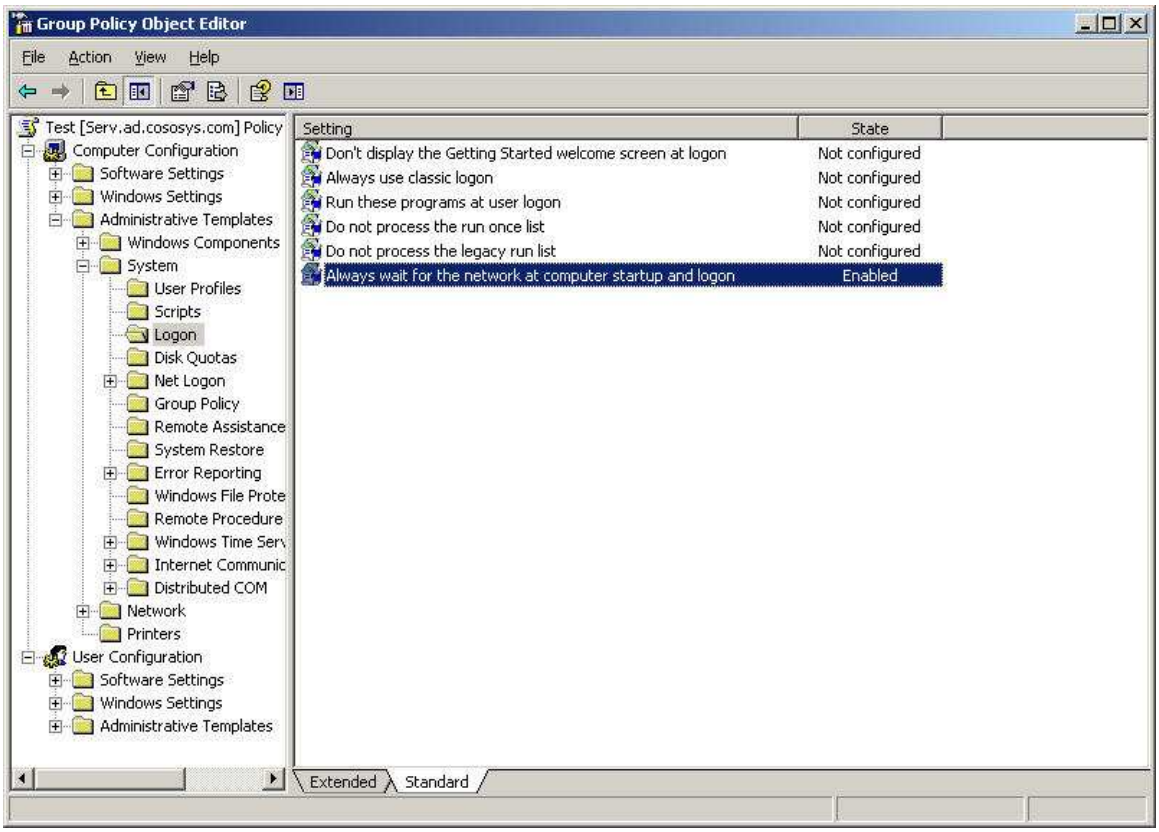


11. Do not use the **Look in** browser to search for the file, but write the full UNC path of the script:



Note!
The client computers are required to have Windows Installer 2.0 installed.

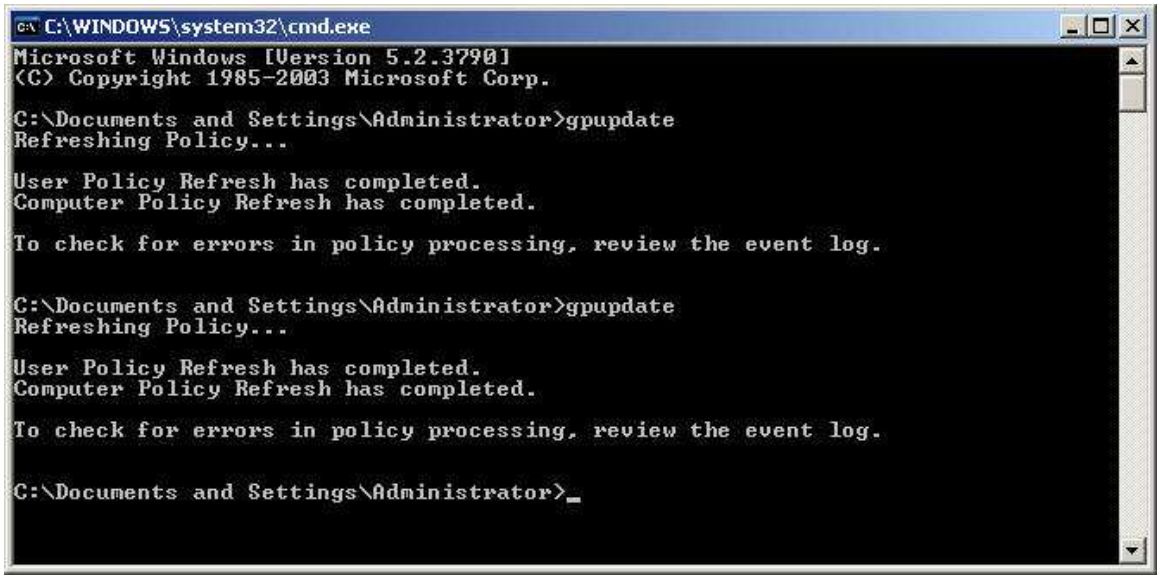
12. If your client computers are running Windows XP then in the same Group Policy Object go under Computer Configuration > Administrative Templates > System > Logon and enable the Always wait for computer network to startup at logon GPO. This is required for the client computers to have access to the shared network folder at reboot.



Next time each computer from this OU reboots, the startup script will run and it will install Endpoint Protector Client.

Note!

It may take some time for your policy to apply, depending on the Domain configuration. If you want to apply the policy immediately, run gpupdate from your command prompt.



3.4. Command-line client installation

The Endpoint Protector client can be installed or uninstalled by using the command line (or command prompt).

Commands:

The format should be:

:\> msiexec /i "EPPSetup.x.x.x.x.msi" [/qn] WSIP= (server IP)

Where:

/i - install

"EPPSetup.version" – EPPSetup.2.3.2.8.msi is the current latest version

/qn – silent mode installation. This means that you won't be asked to introduce any information during the installation procedure. Also you won't see any of the setup steps.

WSIP=IP address – insert the IP address of the Endpoint Protector Server

E.g.: msiexec /i "EPPSetup.2.3.2.8.msi" /qn WSIP=192.168.0.35

To uninstall the client using command prompt, please run the following command:

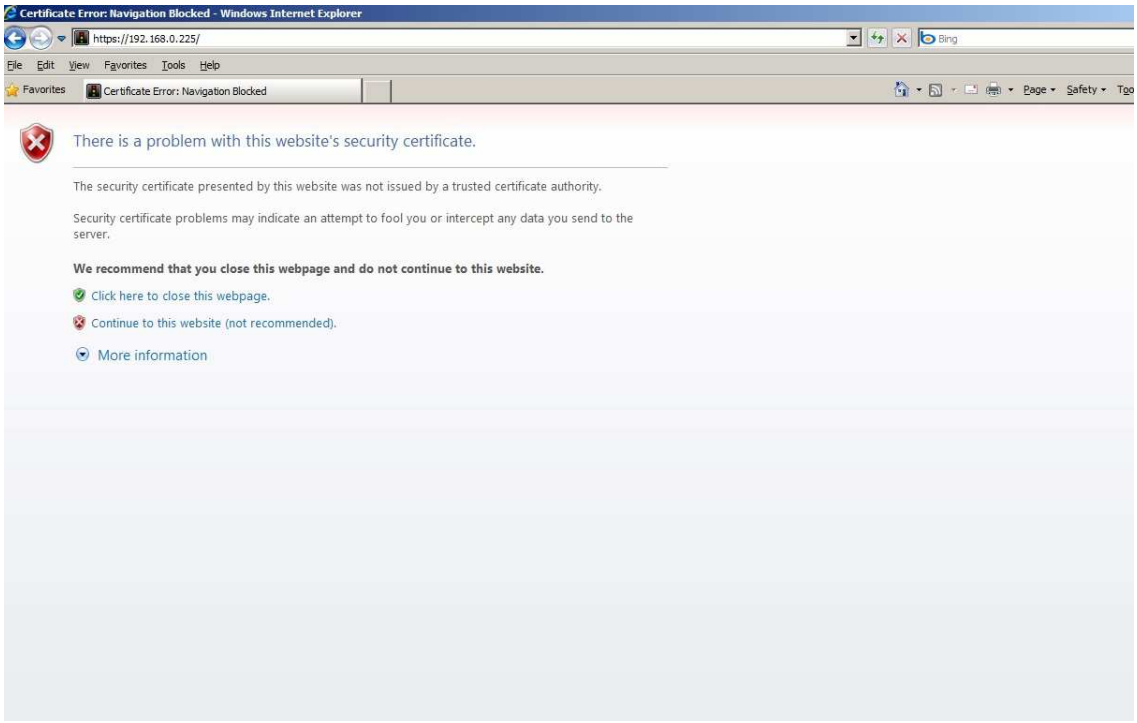
msiexec /x "EPPSetup.2.3.2.8.msi" [/qn] .

4. Installing Root Certificate to your Internet Browser

4.1. For Microsoft Internet Explorer

Open Endpoint Protector Administration and Reporting Tool IP address https://127.0.0.1.

If there is no certificate in your browser, you will be prompted with Certificate Error page like the screenshot below.



Continue your navigation by clicking "Continue to this website (not recommended)".

Now, go to the Certificate file you downloaded and install the Certificate.

Click the Certificate Error button just next to the IE address bar as shown.

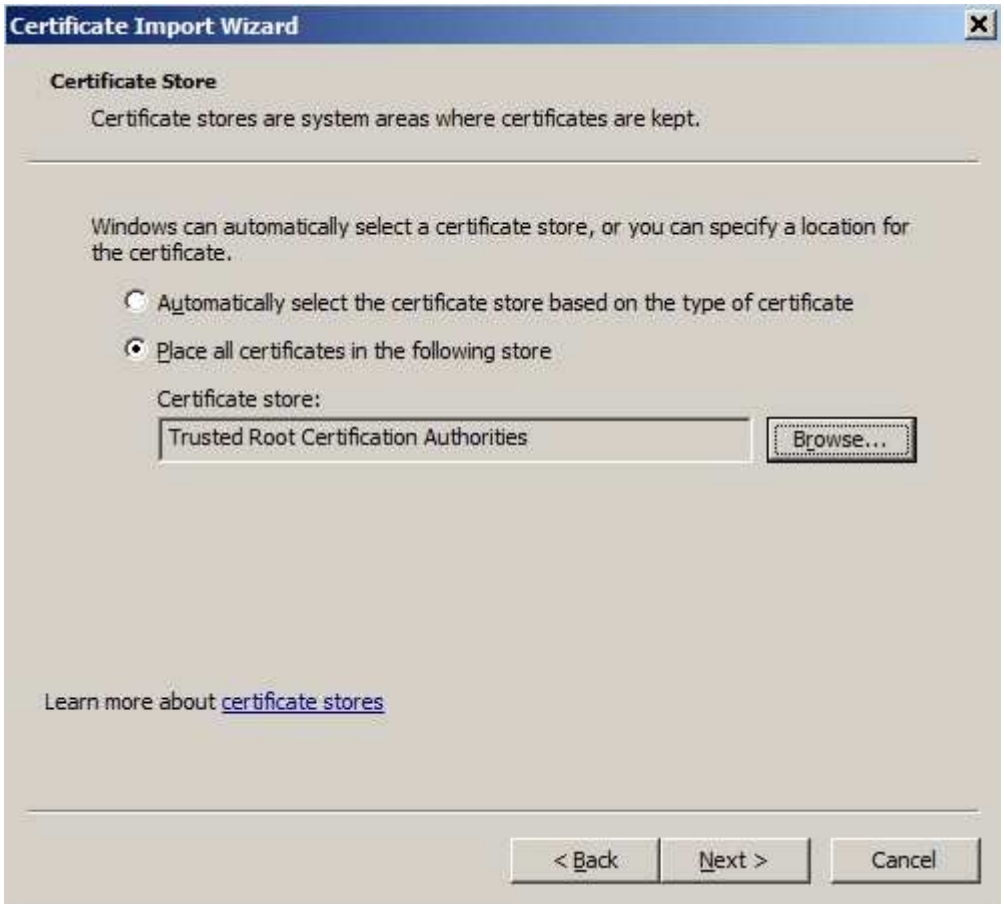
By clicking the "Certificate Error" button, a pop-up window appears. Just click the "View certificates" in that pop-up window.

Another pop-up Certificate window will appear with three tabs namely "General", "Details" and "Certification Path".

Select the "General" tab and then click "Install Certificate..." button as shown above.

Another Welcome to the Certificate Import Wizard pops up. Just click the Next button.

In Certificate Import Wizard window, select “Place all certificates in the following store” radio button.



Click “Browse” button.

From the browser list, select “Trusted Root Certification Authorities”.

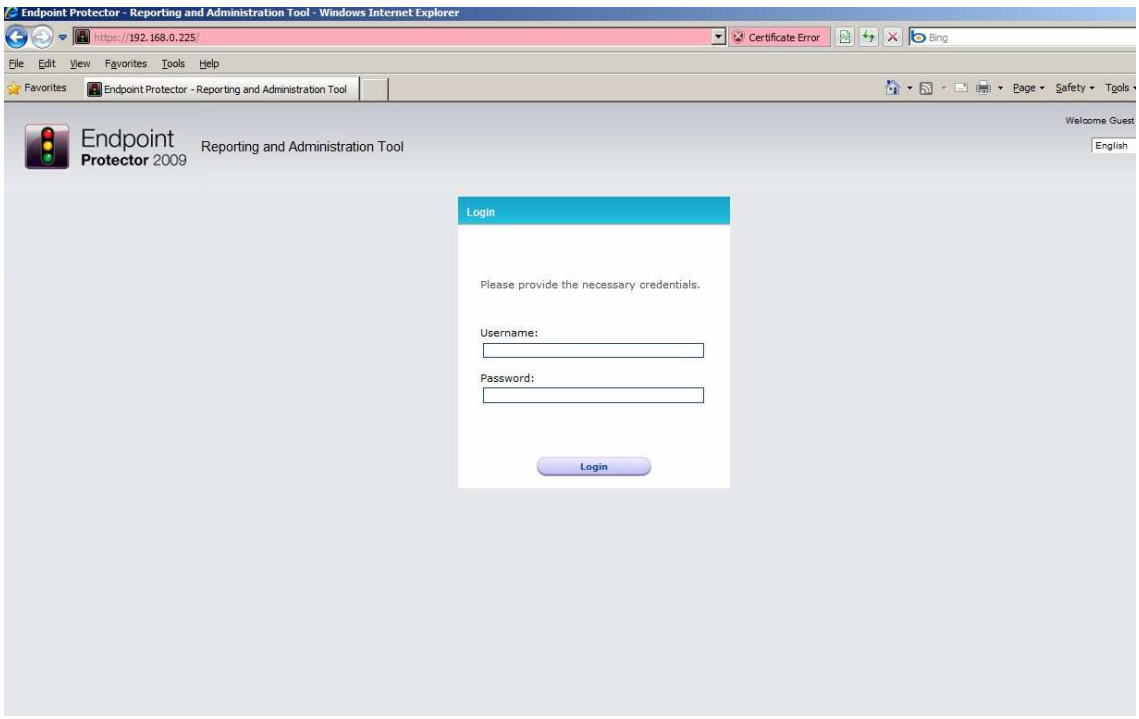
Then click the “Next” button.

Another "Completing the Certificate Import Wizard" pops up. Just click the "Finish" button.

Security Warning window pops up. Just click “Yes”.

You have now successfully installed the Certificate.

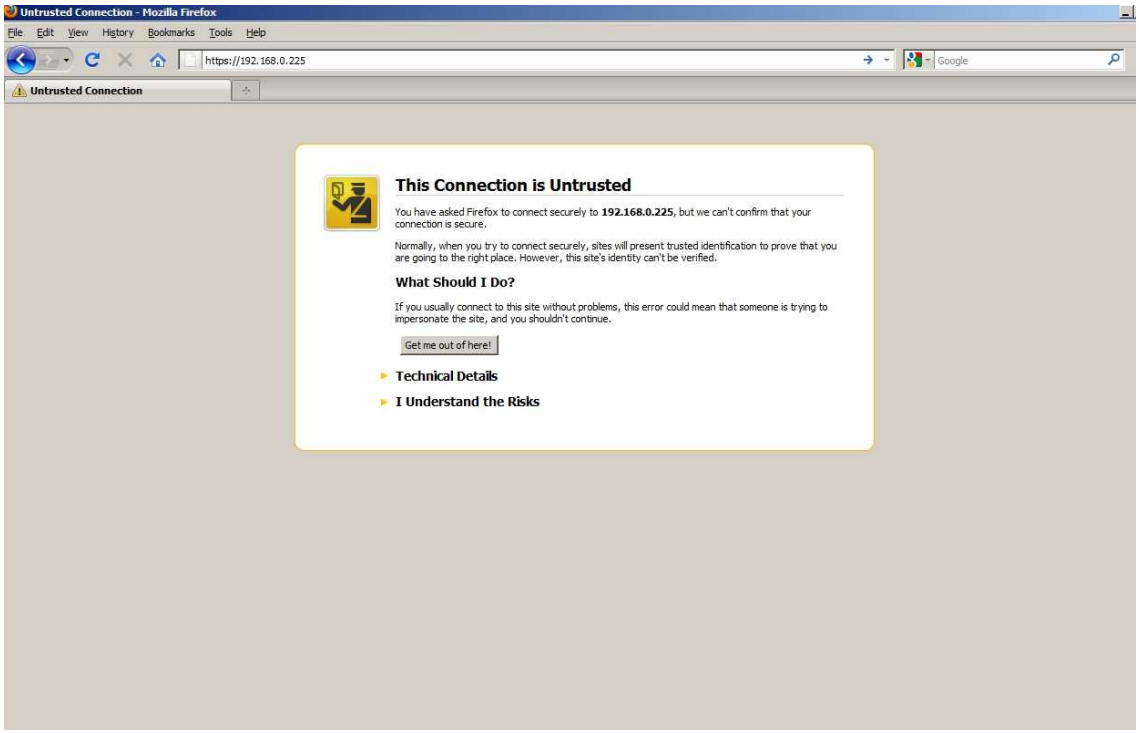
Close the Internet Explorer browser and try to access the Endpoint Protector Administration and Reporting Tool IP address again.



4.2. For Mozilla Firefox

Open the Browser.

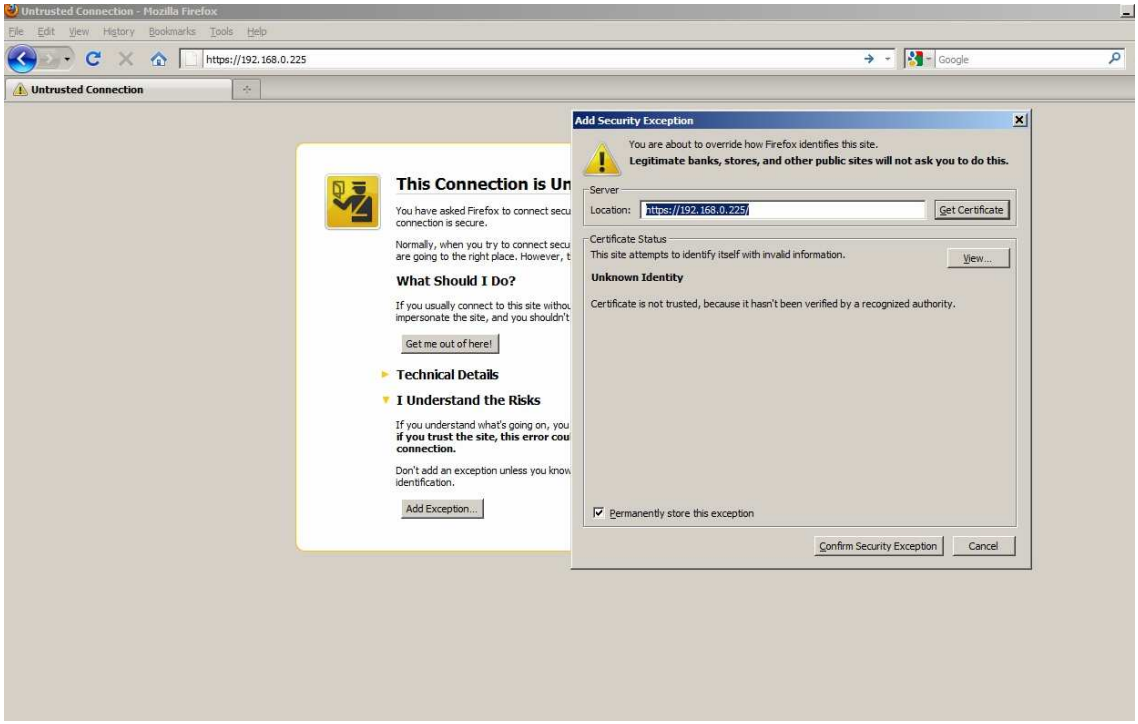
Open Endpoint Protector Administration and Reporting Tool IP address. https://127.0.0.1.



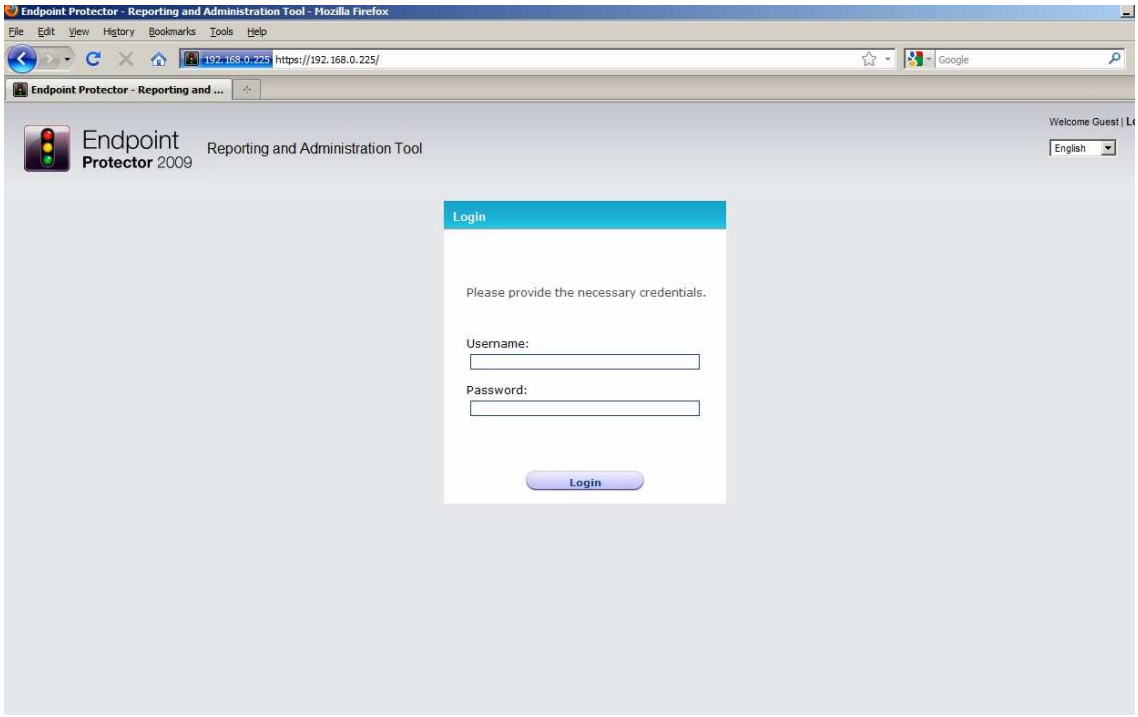
From the above screenshot This Connection is Untrusted, choose I Understand the Risks. Click Add Exception.

Security Warning window pops up.

Just click Get Certificate button and then the Confirm Security Exception button.



Close the browser and start it again.



5. Support

In case additional help, such as the FAQs or e-mail support is required, please visit our support website directly at http://www.cososys.com/help.html.

One of our team members will contact you in the shortest time possible.

Even if you do not have a problem but miss some feature or just want to leave us general comment we would love to hear from you. Your input is much appreciated and we welcome any input to make computing with portable devices safe and convenient.

6. Important Notice / Disclaimer

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